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APPENDIX

(Experimental Results)

A. Results from the fit data of Langer, Bar-on and Miller's theory

Table A.1 The equation from fit experimental data of 30%w TMPC/PS blends at 266°C of Langer, Bar-on and Miller's theory.

Angle (Degree)	Value of the Coefficient				
	T^0	T^1	T^2	T^3	T^4
19	4.5233	0.00268625	-4.82594E-06	4.25453E-09	-1.25032E-12
21	4.53452	0.00278435	-4.63313E-06	3.94954E-09	-1.14145E-12
23	4.36725	0.0023802	-4.25583E-06	3.97343E-09	-1.18666E-12
25	4.43269	0.00215641	-3.30859E-06	3.18353E-09	-9.90989E-13
27	4.52453	0.00232732	-3.25084E-06	3.0917E-09	-9.82523E-13
29	4.24217	0.00189573	-2.90351E-06	3.11747E-09	-1.03788E-12
31	4.41759	0.00198716	-1.78977E-06	1.57183E-09	-5.01299E-13
33	4.4765	0.00158383	-8.94534E-07	9.08948E-10	-3.54136E-13
35	4.2999	0.00193145	-1.08534E-06	8.01853E-10	-2.812E-13
37	4.29385	0.00190945	-5.18242E-07	9.46916E-11	-6.1729E-14
39	4.29849	0.00206486	-7.11874E-07	1.21247E-10	-4.3506E-14
41	3.95018	0.00222726	-5.92495E-07	-2.05703E-10	6.5339E-14
43	4.0995	0.00251045	-1.32694E-06	3.94542E-10	-1.08719E-13
45	4.30839	0.00229487	-9.61324E-07	6.46565E-11	-1.5332E-15
47	4.00949	0.0029339	-2.29323E-06	1.06063E-09	-2.9572E-13
49	3.02822	0.0048968	-6.01773E-06	4.37927E-09	-1.61021E-12
51	4.01304	0.00270936	-1.07421E-06	-6.09705E-10	2.9929E-13
53	4.10829	0.00271344	-1.27732E-06	-3.90819E-10	2.2273E-13
55	3.97982	0.00272846	-1.38808E-06	-5.20564E-10	3.2499E-13
57	3.96149	0.00336064	-3.05381E-06	9.99875E-10	-1.5006E-13
59	3.82342	0.00352502	-3.39787E-06	1.1047E-09	-1.27775E-13
61	3.99	0.00338606	-2.91529E-06	5.4974E-10	9.13822E-14
63	3.87228	0.00349472	-3.61425E-06	1.30769E-09	-1.28969E-13
65	3.95585	0.00333493	-3.46244E-06	1.24972E-09	-1.04972E-13
67	3.56784	0.0039742	-4.94881E-06	2.23105E-09	-3.48892E-13

Table A.2 The equation from fit experimental data of 30%w TMPC/PS blends at 269°C of Langer, Bar-on and Miller's theory.

Angle (Degree)	Value of the Coefficient				
	T^0	T^1	T^2	T^3	T^4
19	4.20249	0.00178073	-2.54759E-06	2.27348E-09	-6.35024E-13
21	4.20352	0.00182429	-1.98735E-06	1.69183E-09	-4.78634E-13
23	4.01672	0.00184101	-3.77634E-06	4.57956E-09	-1.6243E-12
25	3.99731	0.00157836	-1.30845E-06	1.5219E-09	-5.4823E-13
27	4.02712	0.00216695	-2.20926E-06	2.21689E-09	-7.37418E-13
29	3.68265	0.00156636	-1.7182E-06	2.76109E-09	-1.15796E-12
31	3.86284	0.00150455	3.78423E-07	-1.75288E-10	-6.55519E-14
33	3.83791	0.00162832	3.88017E-07	-2.81282E-10	-2.07899E-14
35	3.61898	0.00183292	9.75602E-07	-1.07352E-09	2.09988E-13
37	3.628	0.00193181	1.22056E-06	-1.44626E-09	3.19038E-13
39	3.50834	0.00282837	-4.74712E-07	-1.77136E-10	-2.14075E-14
41	3.08758	0.0028951	9.39704E-07	-2.12116E-09	6.70173E-13
43	3.319	0.00294777	7.37263E-07	-2.12377E-09	7.0996E-13
45	3.61798	0.00251003	1.57458E-06	-3.11544E-09	1.11066E-12
47	3.22117	0.00318515	1.07793E-06	-3.17768E-09	1.18519E-12
49	1.48589	0.00824606	-6.25114E-06	1.70311E-09	-1.83376E-13
51	3.2437	0.00350988	8.11659E-07	-3.49249E-09	1.37038E-12
53	3.21471	0.00409167	-8.71411E-08	-3.00991E-09	1.28251E-12
55	3.0795	0.00451268	-1.44029E-06	-1.73506E-09	8.82503E-13
57	3.09381	0.00457313	-8.13466E-07	-2.85251E-09	1.30976E-12
59	3.14865	0.003833	3.43655E-07	-3.92435E-09	1.6976E-12
61	3.19518	0.00471965	-1.82226E-06	-1.93771E-09	1.09033E-12
63	3.24414	0.00428348	-1.81869E-06	-1.64692E-09	9.87146E-13
65	3.31717	0.00404167	-1.25412E-06	-2.17048E-09	1.15107E-12
67	2.79458	0.00537718	-3.60577E-06	-6.92262E-10	8.03203E-13

Table A.3 The equation from fit experimental data of 30%w TMPC/PS blends at 271°C of Langer, Bar-on and Miller's theory.

Angle (Degree)	Value of the Coefficient				
	T^0	T^1	T^2	T^3	T^4
19	4.32301	0.0012599	-6.80836E-07	1.37691E-09	-7.86233E-13
21	4.25751	0.00199102	-2.49782E-06	3.57951E-09	-1.69183E-12
23	4.15982	0.0017102	-6.61489E-07	9.95879E-10	-5.51952E-13
25	4.1697	0.00198107	-1.17868E-06	1.87171E-09	-1.03279E-12
27	4.15276	0.00227757	-3.8412E-07	1.19919E-11	-1.26356E-13
29	3.95437	0.0029831	-2.51142E-06	3.14202E-09	-1.65284E-12
31	4.04784	0.00283116	-7.65339E-07	1.21436E-10	-2.10008E-13
33	4.05948	0.00303002	-7.7517E-07	-1.92929E-10	-9.00472E-14
35	3.92839	0.00365437	-2.39604E-06	1.63713E-09	-8.44482E-13
37	3.93802	0.00380162	-1.95102E-06	4.28059E-10	-2.66728E-13
39	3.83164	0.00457924	-3.87627E-06	2.00887E-09	-7.1999E-13
41	3.73136	0.0047193	-3.77691E-06	1.52487E-09	-5.35581E-13
43	3.72864	0.00506913	-4.04017E-06	7.0576E-10	1.46092E-13
45	3.86617	0.00443923	-2.48822E-06	-1.19557E-09	9.4775E-12
49	3.40446	0.00685295	-8.61445E-06	4.30682	-9.72915E-13
51	3.64658	0.00607477	-6.89128E-06	2.26493	4.7366E-14
53	3.65772	0.0067463	-9.06917E-06	4.86535E-09	-1.04497E-12
55	3.59865	0.00630267	-8.20551E-06	3.63458E-09	-4.24952E-13
57	3.58446	0.0071817	-0.000011011	6.62844E-09	-1.48265E-12
59	3.52693	0.0067004	-1.02232E-05	5.81089E-09	-1.12537E-12
61	3.54034	0.0074431	-1.25013E-05	8.23434E-09	-1.95011E-12
63	3.48275	0.00697886	-1.21353E-05	8.21683E-09	-1.95351E-12
65	3.42023	0.00665181	-1.15998E-05	7.97666E-09	-1.93121E-12
67	3.20167	0.00772997	-1.44477E-05	1.0367E-08	-2.6276E-12

Table A.4 The equation from fit experimental data of 30%w TMPC/PS blends at 273°C of Langer, Bar-on and Miller's theory.

Angle (Degree)	Value of the Coefficient				
	T^0	T^1	T^2	T^3	T^4
15	5.06831	0.00107211	-2.41287E-06	4.55206E-09	-2.20617E-12
17	4.7333	0.000931864	-3.62363E-06	6.70719E-09	-3.09648E-12
19	4.99495	0.00153582	-0.00000118	2.51871E-09	-1.38959E-12
21	4.88697	0.00201019	-1.1875E-06	1.73291E-09	-9.42729E-13
23	4.71655	0.00176861	6.56696E-07	-1.82702E-10	-3.44407E-13
25	4.6969	0.00241167	-2.64498E-08	-4.07392E-10	7.23646E-15
27	4.67114	0.00277283	-3.98199E-08	-5.42101E-10	1.7498E-14
29	4.40928	0.00362478	-1.0464E-06	-4.45973E-10	2.2967E-13
31	4.52289	0.00357717	-6.25773E-08	-2.10026E-09	9.78535E-13
33	4.4607	0.0045746	-2.4828E-06	2.61716E-10	1.37944E-13
35	4.34639	0.00480438	-1.91284E-06	-1.11161E-09	7.57988E-13
37	4.33113	0.00579092	-4.56104E-06	1.46872E-09	-1.3891E-13
39	4.28069	0.0059936	-4.58089E-06	7.1075E-10	3.45496E-13
41	4.12385	0.00694837	-7.12855E-06	3.34944E-09	-6.82465E-13
43	4.11475	0.00740253	-8.04475E-06	3.55562E-09	-5.20589E-13
45	4.22834	0.00727923	-8.12324E-06	3.42464E-09	-3.58114E-13
47	4.04002	0.00855268	-1.21051E-05	7.64866E-09	-1.93247E-12
49	3.69072	0.0105311	-1.66181E-05	1.12304E-08	-2.96316E-12
51	4.0258	0.00927123	-0.000014705	9.96327E-09	-2.60162E-12
53	4.09945	0.00980218	-0.000016512	1.16174E-08	-3.07245E-12
55	3.98329	0.00978973	-1.73652E-05	1.28279E-08	-3.57928E-12
57	4.02847	0.0103248	-1.90642E-05	1.42534E-08	-3.91667E-12
59	3.94898	0.00992089	-1.90212E-05	1.45796E-08	-4.06448E-12
61	4.01816	0.0110131	-2.31223E-05	1.9575E-08	-5.98895E-12
63	3.93641	0.0101972	-0.000021885	1.88892E-08	-5.86206E-12
65	4.03814	0.0102616	-2.24009E-05	1.94759E-08	-6.02406E-12
67	3.70223	0.0110229	-2.54343E-05	2.29116E-08	-7.31271E-12

Table A.5 The equation from fit experimental data of 30%w TMPC/PS blends at 275°C of Langer, Bar-on and Miller's theory.

Angle (Degree)	Value of the Coefficient				
	T^0	T^1	T^2	T^3	T^4
15	4.64364	0.00255327	-5.98571E-06	9.08126E-09	-4.50076E-12
17	4.24551	0.00199783	-4.9788E-06	8.36949E-09	-4.18338E-12
19	4.50706	0.00316234	-4.22611E-06	5.78657E-09	-2.94113E-12
21	4.51311	0.00329591	-3.6123E-06	4.45839E-09	-2.28196E-12
23	4.30578	0.00328071	-1.32353E-06	6.74223E-10	-4.48207E-13
25	4.30912	0.00349886	-8.28506E-06	-7.58134E-10	3.96838E-13
27	4.30049	0.00411441	-1.57093E-06	-3.2516E-10	2.60139E-13
29	3.96145	0.0050299	-1.79041E-06	-1.8721E-09	1.38281E-12
31	4.06819	0.00511678	-1.4194E-06	-2.97867E-09	2.07405E-12
33	4.04034	0.00578915	-2.90758E-06	-1.57191E-09	1.52916E-12
35	3.87585	0.00672818	-5.08272E-06	7.4506E-10	5.45451E-13
37	3.79925	0.00777939	-7.6105E-06	3.12137E-09	-2.85456E-13
39	3.74487	0.00822382	-8.6967E-06	3.74779E-09	-3.17889E-13
41	3.43402	0.0102561	-1.40845E-05	9.68755E-09	-2.78171E-12
43	3.54776	0.0100174	-1.37542E-05	9.23746E-09	-2.58293E-12
45	3.74147	0.00937117	-1.23305E-05	7.14892E-09	-1.53061E-12
47	3.41522	0.0113595	-1.78626E-05	1.30299E-08	-3.76764E-12
49	2.42986	0.0191799	-4.09022E-05	4.01309E-08	-1.5132E-11
51	3.40204	0.0120868	-2.03057E-05	1.51309E-08	-4.41766E-12
53	3.41172	0.0132058	-2.40158E-05	1.92644E-08	-5.95892E-12
55	3.30806	0.0132908	-2.51066E-05	2.04491E-08	-6.32065E-12
57	3.2915	0.0146898	-3.02772E-05	2.70629E-08	-9.19574E-12
59	3.29991	0.0134635	-0.000027414	2.36146E-08	-7.62577E-12
61	3.35557	0.0144691	-3.14287E-05	2.91969E-08	-1.01699E-11
63	3.34954	0.0131777	-0.00002816	2.50068E-08	-8.1245E-12
65	3.44077	0.0134458	-2.98197E-05	2.76098E-08	-9.35598E-12
67	2.99561	0.0153227	-3.64721E-05	3.57558E-08	-1.27748E-11

Table A.6 The equation from fit experimental data of 50%w TMPC/PS blends (Prepared by solvent casting) at 237°C of Langer, Bar-on and Miller's theory.

Angle (Degree)	Value of the Coefficient				
	T^0	T^1	T^2	T^3	T^4
13	6.02178	-9.26134E-05	-1.18894E-07	9.07099E-10	-5.95211E-13
15	5.8433	7.66577E-05	1.69664E-07	3.45253E-10	-3.43567E-13
17	5.78041	-0.000146042	7.6067E-07	-1.81152E-11	-3.3991E-13
19	5.65876	-0.000212785	2.11453E-06	-2.01772E-09	4.91981E-13
21	5.47609	-0.000409714	3.07713E-06	-2.97404E-09	7.57082E-13
23	5.3718	-0.000503706	4.26326E-06	-4.80636E-09	1.5253E-12
25	5.17601	-0.000293824	4.64276E-06	-5.85768E-09	2.03537E-12
27	5.079	-0.000365457	5.82065E-06	-7.76836E-09	2.84773E-12
29	4.94716	6.14572E-05	5.00642E-06	-7.34336E-09	2.76791E-12
31	4.81356	0.000424307	4.80551E-06	-8.12444E-09	3.37739E-12
33	4.75476	0.000732743	4.38617E-06	-8.14519E-09	3.51329E-12
35	4.49627	0.00135855	3.45035E-06	-7.92253E-09	3.57737E-12
37	4.50651	0.00191921	1.48024E-06	-6.00789E-09	3.00996E-12
39	4.28804	0.00229216	7.02124E-07	-5.58396E-09	3.00456E-12
41	4.1314	0.00288329	-1.40216E-06	-3.59562E-09	2.40316E-12
43	4.05893	0.00299395	-2.80543E-06	-1.32023E-09	1.41789E-12
45	3.97765	0.00368298	-4.69691E-06	6.74291E-10	7.34553E-13
47	3.97475	0.00347647	1.55539E-05	3.40531E-08	-1.85838E-11
49	3.71978	0.00444489	-8.02041E-06	4.10533E-09	-5.49437E-13
51	3.6996	0.00445425	-8.27111E-06	4.77999E-09	-7.38588E-13
53	3.74471	0.00521247	-1.10544E-05	8.08376E-09	-1.99884E-12
55	3.53964	0.00555529	-1.24612E-05	9.81467E-09	-2.98998E-12
57	3.58096	0.00565707	-1.32841E-05	1.1222E-08	-3.34286E-12
59	3.42518	0.00564654	-1.39676E-05	1.24652E-08	-3.89826E-12
61	3.53669	0.00490774	-1.08617E-05	8.10436E-09	-1.97821E-12
63	3.38469	0.00576118	-1.45756E-05	1.30067E-08	-3.99513E-12
65	3.54247	0.00509289	-1.32685E-05	1.20548E-08	-3.72782E-12
67	3.07634	0.00533321	1.37353E-05	1.2625E-08	-4.07683E-12

Table A.7 The equation from fit experimental data of 50%w TMPC/PS blends (Prepared by solvent casting) at 239°C of Langer, Bar-on and Miller's theory.

Angle (Degree)	Value of the Coefficient				
	T^0	T^1	T^2	T^3	T^4
13	5.835	0.000929589	-4.87758E-06	1.09089E-08	-6.59045E-12
15	5.81826	0.00161389	-6.97554E-06	1.45023E-08	-8.66804E-12
17	5.50468	0.00084316	-3.14196E-06	1.04176E-08	-7.54593E-12
19	5.61152	0.00144247	-3.75599E-06	9.6831E-09	-6.67106E-12
21	5.51532	0.00091391	2.42169E-07	3.3327E-09	-3.6953E-12
23	5.30622	0.00066874	1.91532E-06	1.18015E-09	-2.89876E-12
25	5.27023	0.00035591	3.61705E-06	-1.56081E-09	-1.63227E-12
27	5.14779	0.00032914	6.00156E-06	-7.36275E-09	2.00529E-12
29	4.92503	0.00041016	8.8192E-06	-1.40918E-08	6.08446E-12
31	4.84305	-0.00014574	1.23913E-05	-2.06755E-08	9.75275E-12
33	4.81331	0.00051504	1.20063E-05	-2.30693E-08	1.20809E-11
35	4.58864	0.00139849	9.59846E-06	-2.07762E-08	1.12618E-11
37	4.46826	0.00111448	1.22742E-05	-2.72223E-08	1.56129E-11
39	4.31443	0.00123539	1.42479E-05	-3.35506E-08	2.01262E-11
41	3.98076	0.00259692	1.10293E-05	-3.15751E-08	2.01501E-11
43	4.01017	0.00232796	1.26162E-05	-3.46756E-08	2.20041E-11
45	4.12348	0.00258508	8.34355E-06	-2.63758E-08	1.75418E-11
47	3.69443	0.00391111	6.53029E-06	-2.73829E-08	1.92866E-11
49	2.55201	0.0101373	-9.50337E-06	-1.1979E-08	1.37777E-11
51	3.52549	0.00545545	-9.2525E-06	-1.61493E-08	1.37915E-11
53	3.50677	0.00701589	-6.04983E-06	-9.92103E-09	1.10968E-11
55	3.33723	0.00755667	-9.29054E-06	-4.80881E-09	8.52642E-12
57	3.32324	0.00844621	-1.32994E-05	1.16563E-09	5.73381E-12
59	3.24793	0.00743117	-9.44132E-06	-4.31212E-09	8.30839E-12
61	3.37727	0.00796457	-1.37094E-05	3.50164E-09	4.10928E-12
63	3.31826	0.00719744	-0.000012866	4.84209E-09	2.38232E-12
65	3.45953	0.00671826	-0.000012325	5.68639E-09	1.40307E-12
67	2.76661	0.00923964	-1.98471E-05	1.47554E-08	-2.7894E-12

Table A.8 The equation from fit experimental data of 50%w TMPC/PS blends (Prepared by solvent casting) at 242°C of Langer, Bar-on and Miller's theory.

Angle (Degree)	Value of the Coefficient				
	T^0	T^1	T^2	T^3	T^4
13	6.20273	0.00211276	-1.31231E-05	3.43603E-08	-2.56316E-11
15	6.07051	0.00211261	-1.14255E-05	3.24737E-08	-2.57405E-11
17	5.84607	0.00207145	-9.33431E-06	3.07139E-08	-2.66394E-11
19	5.78288	0.00198893	-9.97149E-06	3.53219E-08	3.19015E-11
21	5.64456	0.00132699	-5.17572E-06	2.7124E-08	2.82857E-11
23	5.45025	0.00109697	9.48779E-07	1.22183E-08	-1.80421E-11
25	5.31987	0.000902576	3.06465E-06	6.74992E-09	-1.43348E-11
27	5.08675	0.000700282	1.35632E-05	-2.42984E-08	1.04129E-11
29	5.00448	-0.00150872	0.000021542	-4.31706E-08	2.40024E-11
31	4.89396	-0.000149087	2.34997E-05	-5.03666E-08	3.03842E-11
33	4.81907	-0.000181597	2.72313E-06	-6.65511E-08	4.53485E-11
35	4.46872	0.00154758	2.60003E-05	-7.32921E-08	5.46796E-11
37	4.45272	0.000903651	3.11016E-05	-8.86609E-08	6.76777E-11
39	4.12977	0.00315522	2.69485E-05	-9.18812E-08	7.54884E-11
41	4.06904	0.00292425	2.61868E-05	-8.90986E-08	7.30355E-11
43	3.88739	0.00489166	1.73239E-05	-7.70007E-08	6.82914E-11
45	3.8916	0.00565233	9.02885E-06	-5.59122E-08	5.22029E-11
47	3.66309	0.00618089	0.000011853	-7.15067E-08	6.81984E-11
49	3.53689	0.00804191	1.63565E-06	-5.45376E-08	5.88691E-11
51	3.49075	0.00913178	-9.41835E-06	-2.4819E-08	3.55686E-11
53	3.50122	0.0113936	-2.03109E-05	-7.73373E-09	2.69383E-11
55	3.30208	0.0106448	-1.73532E-05	-1.03632E-08	2.66161E-11
57	3.322	0.0123957	-2.77128E-05	1.0581E-08	1.23805E-11
59	3.19304	0.0122498	-2.88252E-05	1.27175E-08	1.16436E-11
61	3.26786	0.0135441	-3.97026E-05	4.17638E-08	-1.20286E-11
63	3.16596	0.012659	-3.71875E-05	3.7402E-08	-8.78498E-12
65	3.287	0.0115364	-3.18461E-05	2.7298E-08	-1.62071E-12
67	2.83439	0.013825	-4.37393E-05	4.96976E-08	-1.61897E-11

Table A.9 The equation from fit experimental data of 50%w TMPC/PS blends (Prepared by solvent casting) at 245°C of Langer, Bar-on and Miller's theory.

Angle (Degree)	Value of the Coefficient				
	T^0	T^1	T^2	T^3	T^4
13	5.60386	0.000452885	-3.67589E-06	2.77276E-08	-3.01585E-11
15	5.62302	0.000517656	3.52285E-07	1.61513E-08	-2.18E-11
17	5.31784	-0.000698919	1.18782E-05	-6.03258E-09	-9.65631E-12
19	5.38517	-0.00149826	2.20885E-05	-3.48514E-08	1.36449E-11
21	5.26733	-0.0022102	3.05728E-05	-5.91161E-08	3.29426E-11
23	5.30622	0.000668742	1.91532E-06	1.18015E-09	-2.89876E-12
25	4.84902	-0.00243719	4.74706E-05	-1.14876E-07	8.09372E-11
27	4.80043	-0.00123448	4.44992E-05	-1.18068E-07	8.8134E-11
29	4.22282	-0.000608708	5.22395E-05	-1.49081E-07	1.16491E-10
31	4.34732	-0.000127701	4.49613E-05	-1.34547E-07	1.08583E-10
33	4.26019	0.00139987	0.00004185	-1.40047E-07	1.19061E-10
35	3.91533	0.00343866	3.19831E-05	-1.24013E-07	1.10908E-10
37	3.8426	0.00491124	2.53199E-05	-1.16604E-07	1.09799E-10
39	3.79223	0.00594855	1.10773E-05	-7.87245E-08	8.05505E-11
41	2.95179	0.0115692	-3.37212E-06	-7.22388E-08	8.56222E-11
43	3.25409	0.0118263	-1.70219E-05	-3.16796E-08	5.42875E-11
45	3.76665	0.00817224	-9.80154E-06	-2.76169E-08	4.23958E-11
47	2.94942	0.0162164	-0.000050863	4.93982E-08	-5.56976E-12
51	2.87016	0.0166821	-6.04344E-05	8.10185E-08	-3.6848E-11
53	3.00005	0.0154372	-5.64073E-05	7.64505E-08	-3.52212E-11
55	2.74787	0.0183025	-7.49482E-05	1.18089E-07	-6.64378E-11
57	2.75166	0.0191065	-7.69835E-05	1.25644E-07	-7.0489E-11
59	2.87382	0.0144808	-5.94332E-05	9.17619E-08	-5.00087E-11
61	3.12804	0.0140451	-5.87567E-05	9.45698E-08	-5.37258E-11
63	3.13524	0.0133254	-6.20279E-05	1.12498E-07	-7.1654E-11
65	3.44866	0.0105285	-0.000045729	7.80595E-08	4.72555E-11
67	2.46497	0.0161487	-7.23189E-05	1.24739E-07	-7.68247E-11

Table A.10 The equation from fit experimental data of 50%w TMPC/PS blends (Prepared by solvent casting) at 247°C of Langer, Bar-on and Miller's theory.

Angle (Degree)	Value of the Coefficient				
	T^0	T^1	T^2	T^3	T^4
13	6.12784	0.00171361	-0.00001868	1.10491E-07	-1.48222E-10
15	5.97872	0.00135021	-0.000010576	9.4454E-08	-1.44283E-10
17	5.72199	0.000937265	5.02027E-07	6.41184E-08	-1.25123E-10
19	5.77591	0.00039372	0.00001581	-1.53267E-09	-4.70119E-11
21	5.57169	-0.00102193	0.000036825	-7.25917E-08	2.47899E-11
23	5.36087	-0.00138851	0.000055409	-1.4991E-07	1.12372E-10
25	5.27372	-0.00132061	0.00006276	-1.92286E-07	1.69473E-10
27	5.13555	-0.00126306	0.000071206	-2.44343E-07	2.42501E-10
29	4.85949	-0.000325366	0.00008639	-3.32681E-07	3.60398E-10
31	4.78102	0.00165163	0.00007304	-3.09905E-07	3.53646E-10
33	4.69307	0.00186578	0.000082309	-10.64012	4.28182E-10
35	4.40339	0.00446088	0.000072624	-3.67703E-07	4.57871E-10
37	4.2363	0.00745944	5.18257E-05	-3.19959E-07	4.23198E-10
39	4.01978	0.00990156	0.000031555	-2.70797E-07	3.86739E-10
41	3.7859	0.011924	2.09942E-05	-2.53696E-07	3.79758E-10
43	3.64889	0.0161977	-2.01235E-05	-1.27186E-07	2.52686E-10
45	3.87447	0.015255	-2.49179E-05	-1.01804E-07	2.25403E-10
47	3.39691	0.0222393	-7.43116E-05	2.89844E-08	1.03125E-10
49	1.75199	0.0498163	-0.000266857	5.76869E-07	-4.50024E-10
51	3.25223	0.0253282	-0.000114216	1.78682E-07	-6.90037E-11
53	3.31707	0.025345	-0.000117728	1.93194E-07	-8.54206E-11
55	3.11732	0.0275237	-0.000147107	3.04077E-07	-2.16776E-10
57	3.13825	0.0289063	-0.000163044	3.66439E-07	-2.94382E-10
59	3.12339	0.024357	-0.000134552	2.91903E-07	-2.22079E-10
61	3.19654	0.0273664	-0.000163063	3.92949E-07	-3.40289E-10
63	3.25488	0.0229022	-0.000140439	3.46842E-07	-3.06546E-10
65	3.37097	0.0221316	-0.000130038	3.04435E-07	-2.53358E-10
67	2.7426	0.0293355	-0.000193552	5.10741E-07	-4.80996E-10

Table A.11 The equation from fit experimental data of 50%w TMPC/PS blends (Prepared by melt mixed) at 249°C of Langer, Bar-on and Miller's theory.

Angle (Degree)	Value of the Coefficient				
	T^0	T^1	T^2	T^3	T^4
13	8.48026	0.00545537	-2.34552E-06	-1.44648E-08	1.3828E-11
15	8.2866	0.00729026	-0.0000121	2.07355E-09	4.85155E-12
17	7.91023	0.00972447	-2.88815E-05	3.52524E-08	-1.55738E-11
19	7.80941	0.00840805	-2.28079E-05	2.55811E-08	-1.04312E-11
21	7.458	0.0111929	-3.75475E-05	4.95123E-08	-2.30357E-11
23	7.30473	0.0102061	-3.17907E-05	3.941E-08	-1.74417E-11
25	7.01645	0.0125975	-4.68467E-05	6.7715E-08	-3.4105E-11
27	6.947	0.0110408	-4.00528E-05	5.74011E-08	-2.89032E-11
29	6.70143	0.0129616	-5.29026E-05	8.30545E-08	-4.49676E-11
31	6.65023	0.0111153	-4.34484E-05	6.71144E-08	-3.63034E-11
33	6.57377	0.0104333	-0.00004225	6.57037E-08	3.54919E-11
35	6.4487	0.00989233	-4.14059E-05	6.69483E-08	-3.74369E-11
37	6.36554	0.00912483	-0.000038059	6.15724E-08	-3.38697E-11
39	6.2698	0.00853997	-3.71755E-05	6.11886E-08	-3.44597E-11
41	6.16356	0.00829091	-3.65027E-05	5.95631E-08	-3.29543E-11
43	6.07563	0.00801334	-3.50965E-05	5.72418E-08	-3.18286E-11
45	6.01254	0.00683533	-2.94524E-05	4.71993E-08	-2.57322E-11
47	5.92785	0.00681221	-3.05651E-05	5.08309E-08	-2.87712E-11
49	5.85545	0.00664367	-3.00155E-05	4.93715E-08	-2.76424E-11
51	5.86385	0.00585812	-2.75308E-05	4.62589E-08	-2.60733E-11
53	5.86639	0.00561151	-0.000025919	4.33084E-08	-2.44212E-11
55	5.71966	0.00542008	-0.000025849	4.36257E-08	-2.45625E-11
57	5.73219	0.00511438	-2.36709E-05	3.90889E-08	-2.15874E-11
59	5.58665	0.00463627	-0.000022811	3.92343E-08	-2.24562E-11
61	5.57375	0.00472608	-2.21457E-05	3.7097E-08	-2.07582E-11
63	5.49944	0.00358541	-1.79803E-05	3.11128E-08	-1.78682E-11
65	5.22526	0.00435651	-1.95421E-05	3.22867E-08	-1.79387E-11
67	5.30372	0.00324111	-1.66972E-05	2.88381E-08	-1.64162E-11

Table A.12 The equation from fit experimental data of 50%w TMPC/PS blends (Prepared by melt mixed) at 250°C of Langer, Bar-on and Miller's theory.

Angle (Degree)	Value of the Coefficient				
	T^0	T^1	T^2	T^3	T^4
13	7.28473	-0.00357703	6.95855E-05	-1.80263E-07	1.35397E-10
15	7.02495	-0.00256441	6.77677E-05	-1.84481E-07	1.4138E-10
17	6.49104	0.00240667	5.31797E-05	-1.8679E-07	1.64379E-10
19	6.27989	0.0072557	1.83408E-05	-1.09141E-07	1.09079E-10
21	5.92655	0.0115709	-5.55552E-06	-6.62155E-08	8.37131E-11
23	5.65119	0.0154205	-3.45544E-05	-3.38438E-12	3.65321E-11
25	5.43777	0.0192938	-6.57861E-05	7.88253E-08	-2.69074E-11
27	5.23946	0.0228443	-9.40565E-05	1.47446E-07	-7.92254E-11
29	5.12834	0.0228674	-9.94714E-05	1.64954E-07	-9.44774E-11
31	5.02091	0.0261014	-0.000128402	2.436E-07	-1.61216E-10
33	4.97632	0.0256846	-0.000130434	2.50317E-07	-1.64912E-10
35	4.87467	0.0248751	-0.000129904	2.57368E-07	-1.75646E-10
37	4.83793	0.0256521	-0.000141522	2.91646E-07	-2.04766E-10
39	4.72818	0.0246626	-0.000138562	2.90911E-07	-2.0734E-10
41	4.66961	0.0237138	-0.000133631	2.80478E-07	-1.99974E-10
43	4.59201	0.0249151	-0.000145715	3.14017E-07	-2.28326E-10
45	4.62942	0.0225148	-0.000133067	2.91474E-07	-2.14935E-10
47	4.52859	0.0226014	-0.000134132	2.90125E-07	-2.10715E-10
49	4.36027	0.0237711	-0.000143435	3.15336E-07	-2.32872E-10
51	4.48375	0.0206799	-0.000125252	2.77469E-07	-2.05633E-10
53	4.5515	0.019069	-0.000114292	2.52658E-07	1.87512E-10
55	4.42565	0.0186796	-0.000113522	2.51692E-07	-1.86617E-10
57	4.44639	0.0180357	-0.000108811	2.42794E-07	-1.81856E-10
59	4.363	0.0165153	-0.000100706	2.24108E-07	-1.66821E-10
61	4.36176	0.0164158	-9.79399E-05	2.17165E-07	-1.61823E-10
63	4.28594	0.0154211	-9.41752E-05	2.11252E-07	-1.58192E-10
65	4.14678	0.0131217	-7.42798E-05	1.61749E-07	-1.19539E-10
67	4.1102	0.0110302	-5.03526E-05	8.42595E-08	-4.7255E-11

Table A.13 The equation from fit experimental data of 50%w TMPC/PS blends (Prepared by melt mixed) at 251°C of Langer, Bar-on and Miller's theory.

Angle (Degree)	Value of the Coefficient				
	T^0	T^1	T^2	T^3	T^4
13	7.68425	-0.000416254	6.31218E-05	-2.06083E-07	1.79422E-10
15	7.42732	0.0064059	9.06927E-06	-7.61893E-08	7.98663E-11
17	7.09465	0.010069	-1.06516E-05	-4.09397E-08	5.85676E-11
19	6.95061	0.0140225	-4.69555E-05	4.95373E-08	-9.58765E-12
21	6.71613	0.0151373	-5.69685E-05	7.42543E-08	-2.9825E-11
23	6.38195	0.0233688	-0.000121146	2.35081E-07	1.57082E-10
25	6.47894	0.0191772	-0.000106493	2.13716E-07	1.45577E-10
27	6.43527	0.0184896	-0.000107999	2.26938E-07	-1.61966E-10
29	6.3043	0.0162058	-9.15019E-05	1.86247E-07	-1.29447E-10
31	5.97933	0.0207587	-0.000122719	2.6353E-07	-1.91507E-10
33	5.90226	0.0190975	-0.000110036	2.28988E-07	-1.60968E-10
35	5.65246	0.0219793	-0.000131504	2.85868E-07	2.09125E-10
37	5.71168	0.0181833	-0.000108357	2.3407E-07	-1.70485E-10
39	5.52161	0.019191	-0.000114125	2.48306E-07	-1.82479E-10
41	5.52495	0.0173201	-0.000105477	2.32641E-07	1.7262E-10
43	5.50236	0.015988	-9.86923E-05	2.19371E-07	-1.62973E-10
45	5.49511	0.0143955	-8.74637E-05	1.92685E-07	-1.42357E-10
47	5.36791	0.0145932	-9.09617E-05	2.0522E-07	-1.54512E-10
49	5.34455	0.0147791	-9.53397E-05	2.19481E-07	-1.68067E-10
51	5.34398	0.0132016	-0.000083201	1.88235E-07	-1.41591E-10
53	5.3744	0.0127042	-8.10528E-05	1.88218E-07	-1.45747E-10
55	5.24826	0.0112629	-6.63244E-05	1.40584E-07	-9.91798E-11
57	5.26887	0.0112751	-6.93108E-05	1.54406E-07	-1.14542E-10
59	5.1163	0.0110693	-6.77066E-05	1.51334E-07	-1.13802E-10
61	4.98865	0.011132	-6.72905E-05	1.49648E-07	-1.11668E-10
63	5.01713	0.0104782	-6.39986E-05	1.43634E-07	-1.08298E-10
65	4.60624	0.0097662	-5.39821E-05	1.14827E-07	-8.32675E-11
67	4.811	0.0103479	-6.18275E-05	1.34877E-07	9.85153E-11

Table A.14 The equation from fit experimental data of 50%w TMPC/PS blends (Prepared by melt mixed) at 252°C of Langer, Bar-on and Miller's theory.

Angle (Degree)	Value of the Coefficient				
	T^0	T^1	T^2	T^3	T^4
13	6.9712	0.00299358	5.96481E-05	-2.13024E-07	1.91479E-10
15	6.73128	0.00880675	2.19569E-05	-1.32621E-07	1.34241E-10
17	6.34821	0.016567	-4.19417E-05	2.41941E-08	1.26742E-11
19	5.89222	0.0263151	-0.000106001	1.72127E-07	-9.91382E-11
21	6.10839	0.0207846	-8.76126E-05	1.46532E-07	-8.78102E-11
23	5.77278	0.0266824	-0.000129974	2.47875E-07	-1.6488E-10
25	5.75669	0.0257577	-0.000133749	2.66673E-07	-1.83991E-10
27	5.66106	0.0254034	-0.000135285	2.76581E-07	-1.95433E-10
29	5.64761	0.0230547	-0.000125117	2.52911E-07	-1.74634E-10
31	5.58702	0.0234481	-0.00013592	2.94307E-07	-2.16622E-10
33	5.5758	0.0213599	-0.000121948	2.57518E-07	-1.84698E-10
35	5.62501	0.0176038	-9.93428E-05	2.06339E-07	-1.46375E-10
37	5.4531	0.0196203	-0.000118355	2.59773E-07	-1.92491E-10
39	5.47638	0.0171845	-0.00010793	2.43764E-07	-1.83339E-10
41	5.50517	0.0126112	-8.08576E-05	1.84093E-07	-1.39724E-10
43	5.44692	0.0119237	-7.23125E-05	1.55913E-07	-1.12699E-10
45	5.56602	0.0084633	-5.59589E-05	1.27203E-07	-9.53793E-11
47	5.32238	0.0105161	-6.66072E-05	1.48622E-07	-1.10202E-10
49	5.24055	0.0104171	-6.91397E-05	1.56476E-07	-1.17189E-10
51	5.27523	0.00825392	-5.17123E-05	1.15573E-07	-8.66743E-11
53	5.20478	0.00952681	-5.97766E-05	1.35364E-07	-1.02526E-10
55	5.16435	0.00780754	-5.09052E-05	1.18235E-07	-9.19085E-11
57	5.04364	0.00924214	-5.67048E-05	1.26364E-07	-9.44185E-11
59	5.02527	0.00712382	-4.59349E-05	1.04983E-07	-8.01468E-11
61	4.7871	0.00881973	-5.12572E-05	1.11656E-07	-8.24122E-11
63	4.91715	0.00647305	-4.20334E-05	9.8894E-08	-7.76465E-11
65	4.47726	0.00812799	-4.48247E-05	9.64618E-08	-7.10823E-11
67	4.69562	0.00634229	-0.00003925	8.83128E-08	-6.70785E-11

Table A.15 The equation from fit experimental data of 50%w TMPC/PS blends (Prepared by melt mixed) at 253°C of Langer, Bar-on and Miller's theory.

Angle (Degree)	Value of the Coefficient				
	T^0	T^1	T^2	T^3	T^4
13	6.57146	0.0192504	-3.12658E-05	-3.51144E-08	7.45451E-11
15	6.39397	0.022688	-6.81621E-05	6.55549E-08	-1.03707E-11
17	6.14769	0.0286742	-0.000121542	2.0342E-07	-1.22282E-10
19	6.06235	0.0295386	-0.000136171	2.41546E-07	-1.49552E-10
21	5.82032	0.0330757	-0.000169429	3.32692E-07	-2.27108E-10
23	5.80167	0.031482	-0.000167036	3.34612E-07	-2.30964E-10
25	5.69041	0.0327868	-0.000185526	3.90818E-07	-2.80665E-10
27	5.8397	0.0280186	-0.000164573	3.53635E-07	-2.57642E-10
29	5.71089	0.0269355	-0.000156609	3.32995E-07	-2.4041E-10
31	5.78171	0.0237627	-0.000143745	3.15692E-07	-2.34088E-10
33	5.69875	0.0223282	-0.000131251	2.78447E-07	-1.99256E-10
35	5.67305	0.0204594	-0.000126974	2.83378E-07	-2.11256E-10
37	5.62406	0.0188575	-0.000118096	2.704E-07	-2.07662E-10
39	5.55794	0.0181054	-0.000119982	2.84381E-07	-2.22056E-10
41	5.56137	0.0125587	-7.16725E-05	1.48479E-07	-1.0586E-10
43	5.49626	0.0146327	-9.45438E-05	2.13282E-07	-1.60184E-10
45	5.4979	0.0121057	-7.85711E-05	1.80556E-07	-1.38129E-10
47	5.38869	0.0117915	-7.73987E-05	1.78784E-07	-1.37786E-10
49	5.27828	0.0113423	-7.42007E-05	1.66196E-07	-1.24687E-10
51	5.33993	0.00963856	-0.000064489	1.49745E-07	-1.1504E-10
53	5.31452	0.00996458	-0.000065596	1.50132E-07	-1.14104E-10
55	5.27707	0.00765814	-5.32639E-05	1.25506E-07	-9.70786E-11
57	5.17105	0.00914126	-5.92136E-05	1.3485E-07	-1.02404E-10
59	5.0708	0.00743154	-4.92825E-05	1.12622E-07	-8.54421E-11
61	4.95273	0.0082164	-5.25393E-05	1.20295E-07	-9.20122E-11
63	4.9825	0.00647219	-4.17152E-05	9.42707E-08	-7.10383E-11
65	4.52405	0.00840633	-4.68259E-05	9.97484E-08	-7.27812E-11
67	4.70378	0.00752302	-4.66536E-05	1.02318E-07	-7.51439E-11

Table A.16 The equation from fit experimental data of 70%w TMPC/PS blends at 293°C of Langer, Bar-on and Miller's theory.

Angle (Degree)	Value of the Coefficient				
	T^0	T^1	T^2	T^3	T^4
23	5.06453	0.00056643	-1.79769E-06	1.3242E-09	2.49259E-13
25	5.01186	0.000318945	-9.53968E-07	5.53675E-10	1.66057E-14
27	4.90302	0.00076564	-1.94555E-06	1.5819E-09	-3.10916E-13
31	4.74616	0.00105451	-3.3856E-06	3.40881E-09	-9.33614E-13
33	4.69679	0.00153036	-4.84438E-06	5.16194E-09	-1.57637E-12
35	4.6007	0.00175559	-5.86067E-06	6.40823E-09	-2.01885E-12
37	4.59796	0.00135254	-4.83525E-06	5.89149E-19	-2.01321E-12
39	4.48826	0.00128165	-4.41482E-06	5.53752E-09	-1.94102E-12
43	4.40779	0.00102689	-3.4377E-06	4.70114E-09	-1.76635E-12

Table A.17 The equation from fit experimental data of 70%w TMPC/PS blends at 295°C of Langer, Bar-on and Miller's theory.

Angle (Degree)	Value of the Coefficient				
	T^0	T^1	T^2	T^3	T^4
23	5.21655	0.000161316	-1.53448E-06	3.1144E-13	6.74898E-13
25	5.10851	-0.000137783	2.05888E-07	-1.72829E-09	1.61178E-12
27	5.04311	0.00026515	-9.93188E-07	4.9883E-10	4.05386E-13
31	4.8919	0.000573917	-3.41799E-06	3.71152E-09	7.11249E-13
33	4.84516	0.0010353	-5.69488E-06	7.57651E-09	2.60239E-12
35	4.73031	0.00166202	-8.18316E-06	1.02172E-08	-3.43245E-12
37	4.58617	0.00188901	-9.01473E-06	1.29046E-08	-5.21253E-12
39	4.58293	0.00172842	-8.04584E-06	1.16942E-08	-4.80385E-12
43	4.46434	0.00214459	-1.04249E-05	1.56373E-08	-6.85182E-12

Table A.18 The equation from fit experimental data of 70%w TMPC/PS blends at 297°C of Langer, Bar-on and Miller's theory.

Angle (Degree)	Value of the Coefficient				
	T^0	T^1	T^2	T^3	T^4
23	5.21655	0.000161316	-1.53448E-06	3.1144E-10	6.74898E-13
25	5.10851	-0.000137783	2.05888E-07	1.72829E-09	1.61178E-12
27	5.04311	0.00026515	-9.93188E-07	4.9883E-10	4.05386E-13
31	4.8919	0.000573917	-3.41799E-06	3.71152E-09	-7.11249E-13
33	4.84516	0.0010353	-5.69488E-06	7.57651E-09	-2.60239E-12
35	4.73031	0.00166202	-8.18316E-06	1.02172E-08	-3.43245E-12
37	4.58617	0.00188901	-9.01473E-06	1.29046E-08	-5.21253E-12
39	4.58293	0.00172842	-8.04584E-06	1.16942E-08	-4.80385E-12
43	4.46434	0.00214459	1.04249E-05	1.56373E-08	-6.85182E-12

Table A.19 The equation from fit experimental data of 70%w TMPC/PS blends at 299°C of Langer, Bar-on and Miller's theory.

Angle (Degree)	Value of the Coefficient				
	T^0	T^1	T^2	T^3	T^4
23	5.06453	0.00056643	-1.79769E-06	1.3242E-09	-2.49259E-13
25	5.01186	0.000318945	-9.53968E-07	5.53675E-10	1.66057E-14
27	4.90302	0.000761564	-1.94555E-06	1.5819E-09	-3.10916E-13
31	4.74616	0.00105451	-3.3856E-06	3.40881E-09	-9.33614E-13
33	4.69679	0.00153036	-4.84438E-06	5.16194E-09	-1.57637E-12
35	4.6007	0.00175559	-5.86067E-06	6.40823E-09	-2.01885E-12
37	4.59796	0.00135254	-4.83525E-06	5.89149E-09	-2.01321E-12
39	4.48826	0.00128165	-4.41482E-06	5.53752E-09	-1.94102E-12
43	4.40779	0.00102689	-3.4377E-06	4.70114E-09	-1.76635E-12

Table A.20 The equation from fit experimental data of 70%w TMPC/PS blends at 301°C of Langer, Bar-on and Miller's theory.

Angle (Degree)	Value of the Coefficient				
	T^0	T^1	T^2	T^3	T^4
23	5.28387	0.00312444	-1.53242E-05	2.0313E-08	-7.48929E-12
25	5.2498	0.00193916	1.04084E-05	1.56517E-08	-6.26781E-12
27	5.2841	0.00113541	-6.14822E-06	1.05481E-08	-4.48265E-12
31	5.19414	-0.00058337	-1.13807E-06	6.09189E-09	-3.33669E-12
33	5.26339	-0.00199675	3.64531E-06	8.85049E-10	-1.6161E-12
35	5.12743	-0.00241802	5.91109E-06	-1.99427E-09	-5.82528E-13
37	5.06108	-0.00266956	8.85037E-06	-15.38283	1.14015E-12
39	5.00138	-0.00231817	9.11502E-06	-7.61241E-09	1.7796E-12
43	4.82066	-0.00253498	1.12904E-05	-1.11971E-08	3.21292E-12

Table A.21 The equation from fit experimental data of 20%w SMA/PMMA blends at 210°C of Langer, Bar-on and Miller's theory.

Angle (Degree)	Value of the Coefficient				
	T^0	T^1	T^2	T^3	T^4
5	0.000532185	0.0138627	-1.85101E-05	1.07284E-08	-2.2425E-12
7	3.85517E-05	100422	-1.07787E-05	4.71255E-09	-5.65354E-13
9	-0.000071136	-0.01853	6.46039E-05	-6.57494E-08	2.1733E-11
11	0.000032078	0.0083559	-1.05977E-05	6.08102E-09	-1.18902E-12
13	-0.00000571	-0.00149544	1.45905E-05	-1.73604E-08	6.3402E-12
15	-5.51389E-07	-0.000143618	8.36953E-06	-9.19848E-09	3.09661E-12
17	1.47169E-05	0.00383356	-8.81142E-06	9.7175E-09	-3.23471E-12
19	2.77718E-05	0.00723419	-1.62443E-05	1.60916E-08	-5.2301E-12
21	-0.000039694	-0.0103398	0.000319112	-2.76553E-08	7.93437E-12
23	1.92528E-05	0.00501509	-1.00712E-05	9.40071E-09	-2.74499E-12
25	3.78332E-05	0.00985504	-2.55952E-05	2.52362E-08	-7.97119E-12
27	-2.47163E-06	-6.43823E-05	4.4867E-06	-3.28547E-09	9.94916E-13
29	-7.52074E-05	-0.0195905	5.55575E-05	-4.99086E-08	1.53089E-11
31	1.85538E-05	0.00483303	-1.47099E-05	1.79568E-08	-6.54732E-12
33	1.85538E-05	0.00483303	-1.47099E-05	1.79568E-08	-6.54732E-12
35	-1.22834E-05	-0.00319965	8.57894E-06	-4.98823E-09	1.0243E-12
37	0.000966818	0.0251843	-7.48301E-05	7.58261E-08	-2.48631E-11
39	-8.70597E-05	-0.0226779	6.31591E-06	-5.58952E-08	1.67966E-11
41	0.000041354	0.0107722	-0.000382625	4.37502E-08	-1.53093E-11
43	1.27356E-05	0.00331744	-1.19082E-05	1.53983E-08	-5.60929E-12
45	7.07432E-05	0.0184277	-5.23773E-05	5.17214E-08	-1.64959E-11
47	5.74328E-05	0.0149605	-4.63079E-05	4.88169E-08	-1.63341E-11
49	-4.34872E-05	-0.0113278	2.20068E-05	-1.25356E-08	2.32302E-12
53	-4.74989E-05	-0.0123728	2.87319E-05	-2.06421E-09	5.1848E-12
55	-0.000114873	-0.0299229	7.52757E-05	-6.11028E-08	1.56765E-11
57	-0.000412767	-0.10752	0.000296947	-2.71219E-07	8.2734E-11
59	-0.000228739	-0.0295833	-0.00012446	1.24498E-07	-4.0533E-11
61	0.000158368	0.0412527	-0.00012446	1.24498E-07	-4.0533E-11
63	-8.73001E-05	-0.0227405	6.47761E-05	-5.96413E-08	1.86859E-11
65	0.000164551	0.0428634	-0.000118998	1.12518E-07	-3.46642E-11
67	-0.000105027	-0.0273581	6.88244E-05	-5.62447E-08	1.56419E-11

Table A.22 The equation from fit experimental data of 30%w SMA/PMMA blends at 210°C of Langer, Bar-on and Miller's theory.

Angle (Degree)	Value of the Coefficient				
	T^0	T^1	T^2	T^3	T^4
5	0.000203578	0.0292996	-7.29952E-05	7.97919E-08	-3.23056E-11
7	0.000193874	0.027903	-7.33661E-05	8.32924E-08	-3.45598E-11
9	0.000155397	0.0223651	-6.22641E-05	7.46785E-08	-3.25152E-11
11	0.000144527	0.0208008	-5.68212E-05	6.78587E-08	-2.93064E-11
13	9.56254E-05	0.0137627	-3.74771E-05	4.73847E-08	-2.16843E-11
15	0.000110501	0.0159036	-4.32298E-05	5.26195E-08	-2.16843E-11
17	0.00010838	0.0155984	-5.29866E-05	7.71042E-08	-3.84962E-11
19	7.66701E-05	0.0110646	-2.88005E-05	3.75093E-08	-1.75992E-11
21	4.17814E-05	0.00601332	-9.58594E-06	1.22356E-08	-6.44556E-12
23	0.000043122	0.00620626	-1.31364E-05	1.874E-08	-9.56015E-12
25	1.72067E-05	0.000247646	2.73398E-06	-4.55573E-09	1.86609E-12
27	8.06726E-06	0.00116108	2.70392E-06	2.08069E-09	-3.98588E-12
29	1.32682E-05	0.00190962	-4.81899E-07	6.16642E-09	-5.69777E-12
31	1.82068E-05	0.00262039	-4.99608E-06	1.53634E-08	-1.14365E-11
33	0.000029664	0.00426933	-1.40277E-05	3.09254E-08	-2.00925E-11
35	1.08266E-05	0.00155821	-2.58454E-07	8.3652E-09	-7.97918E-12
37	1.91557E-05	0.00275694	-9.60421E-06	2.53853E-08	-1.73276E-11
39	-0.000457829	-0.00658918	3.06811E-05	-3.25605E-08	1.03643E-11
41	-6.99364E-05	-0.0100654	3.57303E-05	-2.94534E-08	4.72931E-12
43	-2.84161E-05	-0.00408972	1.43689E-05	-3.71634E-09	-5.45286E-12
45	-0.00006299	-0.000906566	4.42869E-05	-5.63776E-08	2.35397E-11
47	-4.62133E-05	-0.00665113	2.85898E-05	-2.86402E-08	8.45848E-12
49	-0.000259586	-0.0373602	0.000159118	-2.19312E-07	1.02006E-10
53	-0.000127823	-0.0183966	7.64444E-05	-9.56493E-08	3.9966E-11
55	-7.79401E-05	-0.0112173	5.04383E-05	6.343E-08	2.64858E-11
57	-0.000046862	-0.00674449	2.81636E-05	-2.88295E-08	9.05025E-12
63	-0.000034831	0.00501296	2.11795E-05	-1.76599E-08	2.76734E-12
65	2.07004E-05	0.00297926	-1.15248E-05	2.16106E-08	-1.16261E-11
67	-2.62288E-05	-0.00377491	1.47676E-05	-8.85833E-09	-9.27593E-13

Table A.23 The equation from fit experimental data of 40%w SMA/PMMA blends at 210°C of Langer, Bar-on and Miller's theory.

Angle (Degree)	Value of the Coefficient				
	T^0	T^1	T^2	T^3	T^4
5	0.000126314	0.0219236	-4.43662E-05	4.08917E-08	-1.425E-11
7	1.75566E-05	0.0304719	-0.000088714	1.05268E-07	-4.37533E-11
9	0.000125411	0.0217668	-7.70971E-05	1.09764E-07	-5.32561E-11
11	7.79944E-05	0.013537	-0.000350879	4.3836E-08	-1.97732E-11
13	-0.000229284	-0.0397952	0.000197353	-2.94986E-07	1.44034E-10
15	-1.43243E-05	-0.00248614	2.40066E-05	-3.51963E-08	1.70627E-11
17	0.000537824	0.933464	-0.000378045	5.15876E-07	-2.31804E-10
19	-0.000117574	-0.0204064	0.000096182	-1.32844E-07	6.1032E-11
21	-0.00017913	-0.031122	0.000145643	-2.08789E-07	9.96539E-11
23	-0.000330011	-0.0575778	0.000243318	-3.30548E-07	1.49828E-10
25	-0.000165197	-0.028721	0.000119619	-1.52565E-07	6.47213E-11
27	0.000469305	0.081454	-0.000345183	4.96305E-07	-2.35153E-10
29	0.000195132	0.0338677	-0.000153507	2.38443E-07	-1.19691E-10
31	-9.36375E-05	-0.0126252	0.000595721	-6.3012E-08	2.19255E-11
33	-0.000217476	-0.0377459	0.000156546	-2.04602E-07	8.98674E-11
35	-0.000147813	-0.0256548	9.83234E-05	-1.15746E-07	4.60029E-11
37	1.91557E-05	0.00275694	-9.60421E-06	2.53853E-08	-1.73276E-11
39	4.30042E-05	0.00746393	-3.49083E-05	6.07909E-08	-3.14404E-11
41	-0.000311133	-0.054012	0.000221994	-2.94908E-07	1.31857E-10
43	0.000280412	0.048669	-0.000225275	3.45452E-07	-1.70719E-10
45	0.000145898	0.0253225	-0.000112079	1.72914E-07	-8.59617E-11
47	-0.000579194	-0.100527	0.00040871	-5.46844E-07	2.45559E-10
49	0.001465468	0.287191	-0.00136247	2.08724E-06	-1.0392E-09
51	-0.000466669	-0.0809965	0.000310473	-3.89801E-07	1.64079E-10
53	-0.000985518	-0.17105	0.000717202	-9.95511E-07	4.61831E-10
55	0.000186163	0.032311	-0.000146128	2.20566E-07	-1.06473E-10
57	-8.54242E-05	-0.0148265	4.40544E-05	-3.29633E-08	4.89323E-12
59	0.000442068	0.076267	-0.000331808	4.78387E-07	-2.25808E-10
61	-9.96077E-06	-0.00172887	-1.71676E-05	5.98005E-08	-4.0855E-11
63	6.81638E-05	0.0118307	5.46606E-05	8.83719E-08	-4.41006E-11
65	0.000298895	0.051877	-0.000244995	3.88224E-07	-2.00373E-10
67	0.000789119	0.136962	-0.000609354	8.981E-07	-4.34516E-10

B. Results from the fit data of Akcasu's theory

Table B.1 The equation from fit experimental data of 30%w TMPC/PS blends at 266°C of Akcasu's theory.

Angle (Degree)	Value of the Coefficient			
	T^0	T^1	T^2	T^3
19	-7.74118	0.0295421	-3.58644E-05	1.28759E-08
21	-7.31654	0.0269823	-3.24231E-05	1.16063E-08
23	-6.16045	0.0244597	-3.06456E-05	1.11631E-08
25	-6.06249	0.0240501	-3.09419E-05	1.16623E-08
27	-5.10715	0.0183548	-2.27121E-05	8.35375E-08
29	-5.4232	0.0210259	-2.69523E-05	1.00895E-08
31	-5.01473	0.0172658	-2.09436E-05	7.60029E-09
33	-4.84411	0.0174458	-2.18411E-05	8.20881E-09
35	-5.73184	0.0208063	-2.56332E-05	9.53499E-09
37	-4.9344	0.0172344	-2.09448E-05	7.8178E-09
39	-4.79504	0.0159741	-1.89035E-05	6.93962E-09
41	-5.50358	0.0183727	-2.08399E-05	7.37115E-09
43	-4.5229	0.0141728	-1.55954E-05	5.46598E-09
45	-3.81727	0.0116489	-1.27752E-05	4.50093E-09
47	-4.1396	0.0131781	-1.45257E-05	5.17466E-09
49	-12.8186	0.0496134	-5.64846E-05	1.97818E-08
51	-3.57163	0.0104114	-1.04547E-05	3.5172E-09
53	-3.99318	0.0121305	-1.23406E-05	4.1656E-09
55	-3.43011	0.00972363	-9.11489E-06	2.87398E-09
57	-3.81795	0.0122609	-1.28819E-05	4.48955E-09
59	-3.37052	0.0100641	-9.62476E-06	3.08288E-09
61	-3.10169	0.00924026	-8.74445E-06	2.7292E-09
63	-2.62378	0.00756987	-6.89486E-06	2.05337E-09
65	-3.14973	0.00968367	-9.3681E-06	2.9012E-09
67	-2.16266	0.00568844	-4.33297E-06	1.03465E-09

Table B.2 The equation from fit experimental data of 30%w TMPC/PS blends at 269°C of Akcasu's theory.

Angle (Degree)	Value of the Coefficient			
	T^0	T^1	T^2	T^3
19	-3.04253	0.0107897	-1.48651E-05	5.86016E-09
21	-2.54276	0.00717616	-9.48338E-06	3.71203E-09
23	-2.7671	0.0122824	-1.98036E-05	8.80718E-09
25	-2.46265	0.00808283	-1.19628E-05	5.13711E-09
27	-2.14299	0.005652	-7.89009E-06	3.2592E-09
29	-2.0197	0.00637427	-1.00566E-05	4.48628E-09
31	-1.84033	0.00357309	-4.49877E-06	1.7991E-09
33	-2.07088	0.00526943	-7.68094E-06	3.49031E-09
35	-1.47515	0.00168999	-2.40536E-06	1.36934E-09
37	-1.907	0.00359455	-4.18093E-06	1.78672E-09
39	-2.35764	0.00570111	-7.25947E-06	3.2002E-09
41	-1.81569	0.0024296	-1.79376E-06	6.65133E-10
43	-1.86613	0.00262857	-2.0086E-06	7.88141E-10
45	-1.66518	0.00254972	-2.26519E-06	9.67094E-10
47	-1.69104	0.00280057	-2.53901E-06	1.12393E-09
49	-4.09312	0.0139973	-1.66502E-05	6.50195E-09
51	-2.09259	0.00441946	-3.54318E-06	1.06217E-09
53	-1.1854	-0.000040151	2.78245E-06	-1.57313E-09
55	-1.91148	0.00401919	-3.41572E-06	1.22474E-09
57	-1.63008	0.00247245	-7.22761E-06	-7.85652E-11
59	-1.73769	0.00274891	-7.01548E-06	-2.54026E-10
61	-2.18379	0.00498405	-3.56069E-06	7.93043E-10
63	-1.37965	0.00123277	1.29156E-06	-1.06299E-09
65	-1.6289	0.00274322	-1.09759E-06	3.31682E-11
67	-1.56836	0.00186069	1.08662E-06	-1.19308E-09

Table B.3 The equation from fit experimental data of 30%w TMPC/PS blends at 271°C of Akcasu's theory.

Angle (Degree)	Value of the Coefficient			
	T^0	T^1	T^2	T^3
19	-5.1019	0.0252464	-4.15301E-05	2.01531E-08
21	-4.73658	0.0231299	-0.00003889	1.93837E-08
23	-3.98876	0.0184024	-3.08246E-05	1.53148E-08
25	-5.7801	0.0303507	-5.21981E-05	2.65463E-08
27	-4.59986	0.0219062	-3.66118E-05	1.84469E-08
29	-4.97647	0.023672	-3.90659E-05	1.95675E-08
31	-4.68828	0.0214647	-0.000034642	1.71273E-08
33	-3.92901	0.0161101	-2.46141E-05	1.18542E-08
35	-4.84761	0.0223322	-3.61061E-05	1.81161E-08
37	-4.30541	0.019278	-3.08325E-05	1.55619E-08
39	-5.33098	0.0246486	-3.79512E-05	1.82413E-08
41	-5.46087	0.0253705	-3.86293E-05	1.84144E-08
43	-5.72791	0.0274814	-4.21262E-05	2.00715E-08
45	-4.28343	0.0184058	-0.000026376	1.20625E-08
49	-5.64219	0.0270673	-0.000040365	1.89621E-08
51	-5.51551	0.0262681	-3.85069E-05	1.76115E-08
53	-6.00028	0.029244	-4.31991E-05	1.9831E-08
55	-5.34377	0.0252653	-0.000036357	1.6363E-08
57	-5.04695	0.0244299	-3.60395E-05	1.66621E-08
59	-4.56132	0.020944	-2.91944E-05	1.28166E-08
61	-6.26874	0.0314262	-4.63614E-05	2.10145E-08
63	-5.77032	0.0286865	-4.21906E-05	1.91208E-08
65	-4.3138	0.020066	2.81191E-05	1.22657E-08
67	-6.32086	0.0324348	-4.82495E-05	2.19187E-08

Table B.4 The equation from fit experimental data of 30%w TMPC/PS blends at 273°C of Akcasu's theory.

Angle (Degree)	Value of the Coefficient			
	T^0	T^1	T^2	T^3
15	-2.93568	0.0156589	2.94223E-05	-1.60785E-07
17	-3.97692	0.0249442	-4.65733E-05	1.5482E-08
19	-2.78519	0.0128001	-2.39953E-05	1.30208E-08
21	-2.67497	0.0101399	-0.000017315	8.99788E-09
23	-2.09919	0.00710506	-1.23814E-05	6.662E-09
25	-2.38512	0.0073741	-1.12061E-05	5.48707E-09
27	-2.57835	0.00899423	-1.45875E-05	7.53056E-09
29	-2.83449	0.0103333	-1.56989E-05	7.62908E-09
31	-2.15114	0.00593293	-7.83699E-06	3.56545E-09
33	-2.33805	0.00719394	-9.80475E-06	4.55618E-09
35	-2.3286	0.00716404	-9.60372E-06	4.46858E-09
37	-2.41259	0.0075737	-9.66274E-06	4.23722E-09
39	-2.17612	0.00685469	-8.64723E-06	3.79731E-09
41	-2.62208	0.0095365	-1.27951E-05	5.7633E-09
43	-2.45584	0.00875586	-1.10847E-05	4.69262E-09
45	-2.19198	0.00715223	-8.12553E-06	3.10062E-09
47	-2.59694	0.0100586	-1.31988E-05	5.71473E-09
49	-3.65679	0.0166906	-2.37502E-05	1.06582E-08
51	-2.68037	0.010993	-1.44928E-05	6.18826E-09
53	-2.74868	0.0116214	-1.55095E-05	6.65824E-09
55	-2.72657	0.0114321	-0.000014918	6.24314E-09
57	-2.98281	0.013333	-1.79607E-05	7.59783E-09
59	-2.88296	0.0132046	-1.83219E-05	8.01263E-09
61	-2.66028	0.0124669	-0.000017412	7.59136E-09
63	-2.3497	0.0108431	-1.50075E-05	6.50321E-09
65	-2.41516	0.0112628	-1.54874E-05	6.58559E-09
67	-2.59415	0.0124743	-1.74752E-05	7.5453E-09

Table B.5 The equation from fit experimental data of 30%w TMPC/PS blends at 275°C of Akcasu's theory.

Angle (Degree)	Value of the Coefficient			
	T^0	T^1	T^2	T^3
15	-3.49333	0.0162611	-2.89926E-05	1.50056E-08
17	-4.25226	0.0267995	-5.75355E-05	3.50795E-08
19	-3.0151	0.0136404	-2.67159E-05	1.60411E-08
21	-2.5703	0.0092688	-0.000016974	1.0033E-08
23	-2.4613	0.0083878	-1.37146E-05	7.24389E-09
25	-1.88528	0.00566823	-1.03511E-05	6.55026E-09
27	-2.12173	0.000694159	-1.20227E-05	7.15426E-09
29	-2.42896	0.00842048	-1.32806E-05	7.11501E-09
31	-1.90246	0.00515032	-6.6208E-06	3.0744E-09
33	-1.75468	0.00409694	-4.65409E-06	2.13676E-09
35	-1.76722	0.00545377	-8.20625E-06	4.59208E-09
37	-1.55821	0.00395087	-4.43974E-06	2.00152E-09
39	-1.54993	0.00383606	-3.54098E-06	1.10034E-09
41	-1.72877	0.00534876	-6.67717E-06	3.09584E-09
43	-1.60126	0.00461382	-5.12424E-06	2.12028E-09
45	-1.4558	0.00423069	-4.78026E-06	2.11211E-09
47	-1.60446	0.00571935	-7.54354E-06	3.52509E-09
49	-2.67468	0.0139333	-2.35143E-05	1.26401E-08
51	-1.61214	0.00566478	-6.67806E-06	2.64386E-09
53	-1.45023	0.00499692	-5.61836E-06	2.11215E-09
55	-1.68954	0.0067802	-8.78772E-06	3.7224E-09
57	-1.6146	0.00680097	-9.32655E-06	4.52872E-09
59	-1.4223	0.00549092	-6.81607E-06	2.83786E-09
61	-1.55368	0.00672369	-9.32355E-06	4.25898E-09
63	-1.37835	0.00528967	-6.13707E-06	2.20241E-09
65	-1.48779	0.00642195	-8.82208E-06	3.9647E-09
67	-1.64685	0.00764156	-1.08399E-05	4.87091E-09

Table B.6 The equation from fit experimental data of 50%w TMPC/PS blends (Prepared by solvent casting) at 237°C of Akcasu's theory.

Angle (Degree)	Value of the Coefficient			
	T^0	T^1	T^2	T^3
13	-0.00358722	0.00191655	-1.01359E-05	7.99219E-09
15	-0.096449	0.00323633	-9.29978E-06	6.66726E-09
17	-0.11303	-0.00124316	-2.06324E-06	3.36931E-09
19	-0.0465301	-0.00453163	6.45949E-06	-1.8564E-09
21	0.129526	-0.00528278	7.62466E-06	-2.37206E-09
23	-0.13099	-0.00434766	7.62568E-06	-2.95678E-09
25	0.182205	-0.00751283	1.40393E-05	-6.32506E-09
27	-0.0148996	-0.00697293	1.45775E-05	-7.1544E-09
29	-0.317365	-0.00535322	0.000012131	-5.7988E-09
31	-0.322407	-0.00568044	1.40375E-05	-7.42725E-09
33	-0.573429	-0.00430131	1.23615E-05	-6.8967E-09
35	-0.448934	-0.00514771	1.44719E-05	-8.16752E-09
37	-0.528128	-0.0044014	1.38729E-05	-8.136E-09
39	-0.815714	-0.00224875	9.84615E-06	-6.16227E-09
41	-0.874638	-0.00121186	8.3984E-06	-5.27736E-09
43	-1.23793	0.00143452	3.66538E-06	-3.36344E-09
45	-1.11828	0.00151344	2.52492E-06	-2.51305E-09
47	0.745632	-0.131115	1.51567E-05	-5.97683E-09
49	-1.11276	0.00214809	2.07406E-06	-2.52713E-09
51	-0.863669	0.00109656	2.9741E-06	-2.89299E-09
53	-1.18898	0.00313478	-8.44227E-08	-1.61E-09
55	-1.155042	0.00615282	-6.01372E-06	1.61295E-09
57	-1.45845	0.00597002	-6.36198E-06	2.04828E-09
59	-1.52869	0.00673983	-7.92658E-06	2.83435E-09
61	-1.41139	0.0057791	-6.00978E-06	1.81492E-09
63	-1.62438	0.00809323	-1.10642E-05	4.69151E-09
65	-1.71981	0.00874895	-1.20002E-05	5.01089E-09
67	-2.13655	0.0106664	-1.46703E-05	6.16319E-09

Table B.7 The equation from fit experimental data of 50%w TMPC/PS blends (Prepared by solvent casting) at 239°C of Akcasu's theory.

Angle (Degree)	Value of the Coefficient			
	T^0	T^1	T^2	T^3
13	-0.953303	0.00953423	-3.08292E-05	2.41672E-08
15	-1.52846	0.0128202	-3.74947E-05	2.87014E-08
17	-1.12356	0.00874389	-2.92156E-05	2.43239E-08
19	-1.4303	0.00895975	-2.77824E-05	2.29094E-08
21	-0.730924	0.00132434	-8.48571E-06	9.55968E-09
23	-0.993507	0.00385678	-1.48615E-05	1.43738E-08
25	-0.82757	0.0022025	-1.08244E-05	1.18458E-08
27	-0.61402	-0.00147306	6.53389E-07	2.78607E-09
29	-0.461549	-0.0040658	9.50566E-06	-4.44626E-09
31	-0.571151	-0.00304841	7.61871E-06	-3.31134E-09
33	-0.530695	-0.00496775	0.000015137	-9.92844E-09
35	-0.947327	-0.0019305	9.27193E-06	-6.3271E-09
37	-0.607146	-0.00490021	0.000017583	-1.29811E-08
39	-0.55792	-0.00521201	1.98303E-05	-1.55328E-08
41	-0.800093	-0.00301444	1.55089E-05	-1.29978E-08
43	-0.332322	-0.00735951	2.64056E-05	-2.09268E-08
45	-0.741429	-0.00349585	1.71882E-05	-1.46867E-08
47	-0.714211	-0.00336915	0.000017372	-1.51964E-08
49	-1.52345	0.00522817	-4.08391E-06	4.2613E-10
51	-0.866983	-0.00174779	1.40293E-05	-1.32955E-08
53	-0.927964	-0.000217718	9.63199E-06	-9.95787E-09
55	-0.953921	0.000165711	8.92864E-06	-9.62193E-09
57	-0.958187	0.000921494	6.56372E-06	-7.94186E-09
59	-1.00656	0.000937677	6.47009E-06	-7.50879E-09
61	-1.1486	0.00217842	4.32904E-06	-6.84032E-09
63	-1.38168	0.00422767	-9.09593E-07	-2.90297E-09
65	-1.28126	0.00379838	-8.97176E-07	-2.38706E-09
67	-1.09031	0.00206963	3.89348E-06	-6.20726E-09

Table B.8 The equation from fit experimental data of 50%w TMPC/PS blends (Prepared by solvent casting) at 242°C of Akcasu's theory.

Angle (Degree)	Value of the Coefficient			
	T^0	T^1	T^2	T^3
13	-1.77333	0.0213012	-7.74344E-05	7.45873E-08
15	-1.27746	0.0134209	-5.26468E-05	5.28504E-08
17	-1.3168	0.0124435	5.13359E-05	5.44153E-08
19	-1.16182	0.0117092	-5.13317E-05	5.65909E-08
21	-0.953594	0.008564	-4.20514E-05	4.9888E-08
23	-0.858617	0.0048213	-2.72337E-05	3.5671E-08
25	-0.773629	0.0031893	-2.08376E-05	2.9602E-08
27	-0.753681	-0.00139957	9.36174E-07	6.2712E-09
29	-0.51093	-0.00413931	1.11522E-05	-4.22105E-09
31	-0.41761	-0.00577255	1.83146E-05	-1.20853E-08
33	-0.364239	-0.00798291	3.00889E-05	-2.58479E-08
35	-0.553919	-0.00703744	3.16119E-05	-3.05905E-08
37	-0.43784	-0.00822335	3.71402E-05	-3.69475E-08
39	-0.540626	-0.00760081	3.81662E-05	-3.99618E-08
41	-0.600593	-0.00612319	3.26948E-05	-3.43636E-08
43	-0.809565	-0.00471571	3.20753E-05	-3.67937E-08
45	-0.70205	-0.00532393	3.32014E-05	-3.75106E-08
47	-0.836046	-0.0037482	2.99379E-05	-3.61094E-08
49	-0.88542	-0.00260368	2.72603E-05	-3.46198E-08
51	-1.37473	0.00413889	3.76845E-06	-1.17185E-08
53	-1.13765	0.0021113	1.06182E-05	-1.89179E-08
55	-1.23549	0.00316231	6.0907E-06	-1.32839E-08
57	-1.00328	0.00060386	1.57611E-05	-2.43035E-08
59	-1.08855	0.00222434	1.00492E-05	-1.86957E-08
61	-1.26278	0.00500395	-6.68153E-07	-7.38035E-09
63	-1.35677	0.00642565	-5.29331E-06	-3.05546E-09
65	-1.30464	0.00525526	-6.58993E-07	-8.21854E-09
67	-1.00886	0.002611	7.11325E-06	-1.53916E-08

Table B.9 The equation from fit experimental data of 50%w TMPC/PS blends (Prepared by solvent casting) at 245°C of Akcasu's theory.

Angle (Degree)	Value of the Coefficient			
	T^0	T^1	T^2	T^3
13	-0.517969	0.00626627	-3.85926E-05	4.85974E-08
15	-0.563731	0.00370564	-2.71021E-05	3.7358E-08
17	-0.326778	-0.000687147	-1.05482E-05	2.18121E-08
19	-0.0651456	-0.00601314	1.12679E-05	-1.14912E-09
21	0.14857	-0.008616	2.34415E-05	-1.41564E-08
23	0.0271633	-0.0111729	3.86973E-05	-3.30632E-08
25	0.178487	-0.0136585	4.96161E-05	-4.52414E-08
27	0.0206333	-0.0131664	5.28175E-05	-5.14181E-08
29	-0.0881714	-0.0127427	5.47853E-05	-5.54686E-08
31	0.15923	-0.0152072	6.41698E-05	-6.60726E-08
33	-0.214538	-0.0110057	5.35753E-05	-5.84212E-08
35	-0.324033	-0.00932111	4.83827E-05	-5.39788E-08
37	-0.358747	-0.00804474	4.47193E-05	-5.14568E-08
39	-0.36285	-0.00689349	4.03077E-05	-4.76577E-08
41	-0.699015	-0.00267195	2.72294E-05	-3.54978E-08
43	-0.639708	-0.00222237	2.44495E-05	-3.27475E-08
45	-0.587726	-0.00273413	2.54193E-05	-3.32064E-08
47	-1.07778	0.00351848	6.00338E-06	-1.54092E-08
51	-1.11416	0.00535392	-2.79796E-06	-5.49195E-09
53	-0.563872	-0.000736254	1.53974E-05	-2.14194E-08
55	-1.31168	0.00879278	-1.58405E-05	8.15433E-09
57	-1.28766	0.00847273	-1.40419E-05	5.9009E-09
59	-0.905356	0.00334221	3.4774E-06	-1.16672E-08
61	-1.02322	0.00594234	-8.40017E-06	2.3468E-09
63	-1.21752	0.00831637	-1.48534E-05	6.37208E-09
65	-0.891196	0.00482018	-0.000005912	3.60606E-10
67	-1.65044	0.0132674	-3.24044E-05	2.54041E-08

Table B.10 The equation from fit experimental data of 50%w TMPC/PS blends (Prepared by solvent casting) at 247°C of Akcasu's theory.

Angle (Degree)	Value of the Coefficient			
	T^0	T^1	T^2	T^3
13	-1.36828	0.0260736	-0.000162712	2.58235E-07
15	-1.14424	0.0195143	-0.000131888	2.20951E-07
17	-0.771077	0.0096682	-8.06264E-05	1.51119E-07
19	-0.740957	0.0053515	-5.26872E-05	1.08581E-07
21	-0.300742	-0.0043167	-2.85798E-07	3.17977E-08
23	-0.535696	-0.0029651	1.24624E-06	2.57574E-08
25	-0.377062	-0.0077554	3.19359E-05	-2.37981E-08
27	-0.324044	-0.0108111	5.59255E-05	-6.58236E-08
29	-0.401361	-0.0111065	6.80401E-05	-9.34668E-08
31	-0.549557	-0.0102402	7.07456E-05	-1.037E-07
33	-0.468709	-0.0114049	8.01634E-05	-1.21742E-07
35	-0.630596	-0.0091667	7.59922E-05	-1.23106E-07
37	-0.646299	-0.0084725	7.54087E-05	-1.26655E-07
39	-0.777339	-0.0056055	6.43114E-05	-1.15513E-07
41	-1.07871	0.0001792	3.65411E-05	-7.61583E-08
43	-0.993693	0.0004759	3.42224E-05	-7.42873E-08
45	-0.855283	-0.0014608	0.000044692	-9.17063E-08
47	-1.21956	0.00564086	1.11922E-05	-4.56401E-08
49	-1.90234	0.0212696	-7.31063E-05	8.12117E-08
51	-1.23222	0.00879252	-1.09826E-05	-9.10541E-09
53	-1.42003	0.01216	-2.65769E-05	1.17738E-08
55	-1.35739	0.0123865	-3.03179E-05	1.92689E-08
57	-1.18833	0.00997674	-1.98679E-05	4.85942E-09
59	-1.17226	0.00985791	-0.000019887	5.30282E-09
61	-1.37335	0.014489	-4.60109E-05	4.67044E-08
63	-1.56469	0.0174012	-5.73758E-05	5.88515E-08
65	-1.45563	0.014821	-4.32705E-05	3.76177E-08
67	-1.80329	0.0227825	-0.000087531	1.07704E-07

Table B.11 The equation from fit experimental data of 50%w TMPC/PS blends (Prepared by melt mixed) at 249°C of Akcasu's theory.

Angle (Degree)	Value of the Coefficient			
	T^0	T^1	T^2	T^3
13	-0.625061	-0.00191904	1.28605E-05	-1.22145E-08
15	-0.734525	-0.000772392	1.00147E-05	-1.01418E-08
17	-0.828824	0.00281947	-1.52441E-06	-9.2097E-10
19	-0.887062	0.00240619	9.46041E-07	-3.61883E-09
21	-0.90666	0.0042649	-5.32005E-06	1.72748E-09
23	-1.13968	0.00621872	-9.78619E-06	4.63468E-09
25	-1.28446	0.00882685	-1.78305E-05	1.12065E-08
27	-0.98495	0.00658225	-1.34659E-05	8.76262E-09
29	-1.10964	0.00783373	-1.61526E-05	1.02679E-08
31	-1.09036	0.00769889	-1.63623E-05	1.08721E-08
33	-1.06712	0.00803692	-1.73462E-05	1.14764E-08
35	-1.08401	0.00858515	-1.98365E-05	1.40738E-08
37	-1.06762	0.00865762	-1.97977E-05	1.37048E-08
39	-1.05164	0.00899273	-2.19221E-05	1.61293E-08
41	-0.810465	0.00681167	-1.60019E-05	1.12663E-08
43	-0.945804	0.00813517	-1.95175E-05	1.40364E-08
45	-0.779955	0.00659881	-1.55107E-05	1.08904E-08
47	-0.873903	0.00953413	-2.93088E-05	2.44846E-08
49	-0.88967	0.0077832	-1.86485E-05	1.33149E-08
51	-0.870496	0.00771812	-0.000018613	1.32778E-08
53	-0.78052	0.00697123	-1.69734E-05	1.22472E-08
55	-0.828759	0.00746153	-1.81001E-05	1.29498E-08
57	-0.623205	0.00556525	-1.34012E-05	9.51857E-08
59	-0.676507	0.00615667	-1.50489E-05	1.08348E-08
61	-0.700948	0.00626096	-1.50851E-05	1.07117E-08
63	-0.592802	0.00545953	-1.33895E-05	9.64781E-09
65	-0.717247	0.00631118	-1.51669E-05	1.07758E-08
67	-0.622107	0.00568646	-1.36907E-05	9.637E-09

Table B.12 The equation from fit experimental data of 50%w TMPC/PS blends (Prepared by melt mixed) at 250°C of Akcasu's theory.

Angle (Degree)	Value of the Coefficient			
	T^0	T^1	T^2	T^3
13	0.23218	-0.013726	0.000052656	-5.07336E-08
15	0.140212	-0.014356	5.90455E-05	-5.93111E-08
17	0.0040235	-0.0125745	0.000058485	-6.41805E-08
19	-0.302689	-0.00731102	3.97724E-05	-4.56733E-08
21	-0.619712	-0.00403832	3.19981E-05	-4.05415E-08
23	-0.643656	-0.00128937	1.97658E-05	-2.76134E-08
25	-0.78141	0.00148102	9.34344E-06	-1.69802E-08
27	-0.842292	0.00385388	-8.03547E-07	-6.16533E-09
29	-0.893521	0.00553704	-7.80521E-06	1.19683E-09
31	-0.949295	0.0072003	-1.51162E-05	9.48194E-09
33	-1.04498	0.00889373	-2.12963E-05	1.5521E-08
35	-1.08803	0.00978198	-2.50497E-05	1.98238E-08
37	-1.01965	0.0100056	-0.000027685	2.3428E-08
39	-1.03875	0.0102836	-2.87325E-05	2.44347E-08
41	-1.09477	0.0112187	-3.21866E-05	2.80008E-08
43	-1.05611	0.0113735	-3.40011E-05	3.06448E-08
45	-0.888715	0.00937657	-2.76809E-05	2.46171E-08
47	-1.05776	0.0116269	-3.49427E-05	3.13438E-08
49	-0.949761	0.0106326	-3.26116E-05	2.99439E-08
51	-0.970549	0.0110378	-3.45949E-05	3.23457E-08
53	-0.941436	0.0106057	-3.30674E-05	3.07895E-08
55	-0.90504	0.0102777	-3.19716E-05	2.95806E-08
57	-0.947365	0.017498	-3.38637E-05	3.18769E-08
59	-1.02515	0.0118212	-3.72809E-05	3.49014E-08
61	-0.946714	0.0105533	-3.26679E-05	3.01639E-08
63	-0.980613	0.0113849	-3.63244E-05	3.43444E-08
65	-1.013	0.00109157	-3.36034E-05	3.10881E-08
67	-0.904213	0.0102256	-3.17283E-05	2.92709E-08

Table B.13 The equation from fit experimental data of 50%w TMPC/PS blends (Prepared by melt mixed) at 251°C of Akcasu's theory.

Angle (Degree)	Value of the Coefficient			
	T^0	T^1	T^2	T^3
13	0.398593	-0.0128547	5.33273E-05	-5.63083E-08
15	-0.352656	-0.00268308	1.99626E-05	-2.49337E-08
17	-0.603838	-0.0022287	2.41761E-05	-3.24065E-08
19	-0.933193	0.00432427	-6.11095E-07	-7.57005E-09
21	-0.551113	0.000980532	8.30192E-06	-1.47541E-08
23	-1.23847	0.0110175	-2.73538E-05	2.09074E-08
25	-0.776522	0.00738363	-1.88392E-05	1.46782E-08
27	-0.869414	0.00916614	-2.60384E-05	2.25602E-08
29	-0.697516	0.00650282	-1.57801E-05	1.14879E-08
31	-1.09801	0.0118309	-3.48119E-05	3.09975E-08
33	-1.13926	0.0122203	-3.55461E-05	3.10761E-08
35	-1.07765	0.0119775	-3.64258E-05	3.3253E-08
37	-1.16717	0.0131554	-4.03285E-05	3.69632E-08
39	-1.01329	0.0111753	-3.37648E-05	3.05921E-08
41	-0.987245	0.0111921	-0.000034426	3.1565E-08
43	-1.00357	0.0118812	-3.81267E-05	3.63195E-08
45	-0.961696	0.0108848	-3.34464E-05	3.05028E-08
47	-0.937761	0.0108287	-3.39369E-05	3.15009E-08
49	-0.98828	0.011848	3.82931E-05	3.65975E-08
51	-0.906023	0.0107068	-3.41533E-05	3.21283E-08
53	-0.967098	0.0116014	-0.000038011	3.68796E-08
55	-0.915296	0.0105829	-3.29993E-05	3.025E-08
57	-0.911602	0.0105235	-0.000032955	3.03874E-08
59	-0.89918	0.0103014	-3.21875E-05	2.9876E-08
61	-1.00019	0.011819	-0.000038248	3.66431E-08
63	-1.04059	0.012292	-3.97352E-05	3.80696E-08
65	-0.943807	0.0104572	-3.26508E-05	3.0489E-08
67	-0.809772	0.0096244	-3.11931E-05	2.98582E-08

Table B.14 The equation from fit experimental data of 50%w TMPC/PS blends (Prepared by melt mixed) at 252°C of Akcasu's theory.

Angle (Degree)	Value of the Coefficient			
	T^0	T^1	T^2	T^3
13	0.557244	-0.0159281	6.43897E-05	-6.76347E-08
15	0.389464	-0.0135051	5.70087E-05	-6.10581E-08
17	0.0060256	-0.00630627	3.03541E-05	-3.41304E-08
19	-0.759844	0.00354464	-2.43546E-06	-2.61761E-09
21	-0.715184	0.00365022	-3.20598E-06	-1.62006E-09
23	-0.751899	0.00513754	-9.38278E-06	4.4863E-09
25	-0.933008	0.00777594	-1.85677E-05	1.37351E-08
27	-0.745167	0.00658902	-1.69682E-05	1.37263E-08
29	-0.882189	0.00837954	-2.21823E-05	1.78625E-08
31	-0.71468	0.00738669	-2.16296E-05	1.93935E-08
33	-0.85227	0.00897124	-2.63288E-05	2.34463E-08
35	-1.00113	0.0107334	-3.14545E-05	2.76373E-08
37	-1.07691	0.0119554	-3.61998E-05	3.2861E-08
39	-0.925995	0.0108352	-3.43192E-05	3.22033E-08
41	-1.23999	0.0149949	-4.85998E-05	4.64968E-08
43	-0.89994	0.0104844	-3.27002E-05	3.02099E-08
45	-0.748637	0.00923181	-0.000029899	2.84683E-08
47	-0.987093	0.0118552	-3.80154E-05	3.59216E-08
49	-0.897495	0.011109	-3.60641E-05	3.43954E-08
51	-0.763905	0.00909391	-0.000029086	2.74986E-08
53	-0.735261	0.00873977	-2.80753E-05	2.66518E-08
55	-0.694616	0.00839523	-2.72971E-05	2.62991E-08
57	-0.787525	0.00934863	-3.00885E-05	2.86345E-08
59	-0.721931	0.00874187	-2.83433E-05	2.71149E-08
61	-0.760766	0.00869104	-2.74065E-05	2.57033E-08
63	-0.646094	0.00775669	-2.52726E-05	2.43537E-08
65	-0.783256	0.00864892	-2.70435E-05	2.53243E-08
67	-0.847101	0.0103114	-3.40385E-05	3.32429E-08

Table B.15 The equation from fit experimental data of 50%w TMPC/PS blends (Prepared by melt mixed) at 253°C of Akcasu's theory.

Angle (Degree)	Value of the Coefficient			
	T^0	T^1	T^2	T^3
13	-0.431916	-0.00408211	2.81062E-05	-3.47915E-08
15	-0.362799	-0.00187352	1.64809E-05	-2.12248E-08
17	-0.439919	-0.0005351	1.22542E-05	-1.74835E-08
19	-0.668643	0.00377269	-4.27531E-06	-4.3454E-10
21	-1.06518	0.00904052	-2.19764E-05	1.67114E-08
23	-0.98309	0.00878954	-2.21061E-05	1.71122E-08
25	-1.11366	0.0114403	-3.30027E-05	2.91096E-08
27	-0.855647	0.00909522	-0.000026763	2.40614E-08
29	-0.936736	0.0101216	-3.00345E-05	2.69734E-08
31	-0.749497	0.00832927	-2.53838E-05	2.34287E-08
33	-0.879952	0.00969741	-2.89517E-05	2.58826E-08
35	-0.820027	0.00954283	-3.01068E-05	2.82538E-08
37	-0.761815	0.00870625	-2.73217E-05	2.56169E-08
39	-0.792133	0.00999169	-0.000034149	3.43472E-08
41	-0.784062	0.00868477	-2.59951E-05	2.32642E-08
43	-0.752161	0.00902048	-2.87133E-05	2.70038E-08
45	-0.650526	0.00773094	-2.46136E-05	2.31733E-08
47	-0.699122	0.00847238	-2.74548E-05	2.63141E-08
49	-0.761645	0.00923139	-2.94486E-05	2.77508E-08
51	-0.79303	0.00964002	-3.10955E-05	2.94431E-08
53	-0.712783	0.00867885	-2.80878E-05	2.67266E-08
55	-0.636118	0.00798951	-2.64315E-05	2.5591E-08
57	-0.640797	0.00784949	-2.56615E-05	2.47102E-08
59	-0.653276	0.00799046	-2.58847E-05	2.46176E-08
61	-0.636169	0.0077258	-2.52728E-05	2.43991E-08
63	-0.556603	0.00677909	-2.20388E-05	2.10729E-08
65	-0.710007	0.00799918	-2.50959E-05	2.35042E-08
67	-0.59859	0.00719897	-0.000023209	2.20499E-08

Table B.16 The equation from fit experimental data of 70%w TMPC/PS blends at 293°C of Akcasu's theory.

Angle (Degree)	Value of the Coefficient			
	T^0	T^1	T^2	T^3
23	-2.37395	0.0117434	-1.26121E-05	3.36811E-09
25	-1.0686	0.00589643	-7.27553E-06	2.19858E-09
27	-1.1507	0.00577458	-7.34206E-06	2.35353E-09
31	-1.21568	0.00700817	-0.000010078	3.65725E-09
33	-1.2396	0.0078298	-1.25722E-05	5.18506E-09
35	-2.02187	0.0125891	-1.99315E-05	8.325E-09
37	-1.38287	0.00823689	-1.34753E-05	5.78017E-09
39	-1.96203	0.0109302	-1.73718E-05	7.43506E-09
43	-2.37548	0.0118819	-1.82759E-05	7.82262E-09

Table B.17 The equation from fit experimental data of 70%w TMPC/PS blends at 295°C of Akcasu's theory.

Angle (Degree)	Value of the Coefficient			
	T^0	T^1	T^2	T^3
23	-1.21736	0.0108754	-1.60861E-05	5.6823E-09
25	-0.311152	0.00250084	-3.02305E-06	2.03319E-10
27	-0.621121	0.00459023	-7.41179E-06	2.56365E-09
31	-0.585585	0.00549537	-9.83623E-06	4.03865E-09
33	-0.813716	0.00803108	-1.62514E-05	8.07759E-09
35	-0.912338	0.00889529	-1.73351E-05	8.36903E-09
37	-1.14451	0.0110114	-2.40179E-05	1.32755E-08
39	-1.00686	0.00913847	-1.98183E-05	1.07911E-08
43	-2.38451	0.0201347	-4.23502E-05	2.38757E-08

Table B.18 The equation from fit experimental data of 50%w TMPC/PS blends at 297°C of Akcasu's theory.

Angle (Degree)	Value of the Coefficient			
	T^0	T^1	T^2	T^3
23	-1.61946	0.0165907	-2.28702E-05	7.91884E-09
25	-1.15575	0.00854061	-1.26362E-05	4.66649E-09
27	-1.69504	0.00917577	-1.39047E-05	5.49365E-09
31	-1.22684	0.0082573	-1.34445E-05	5.57159E-09
33	-0.934024	0.0077994	-1.39794E-05	6.14796E-09
35	-0.998123	0.00758236	-1.34634E-05	5.89011E-09
37	-1.02286	0.00704012	-1.28657E-05	5.93177E-09
39	-1.16763	0.00536429	-9.57006E-06	4.47361E-09
43	-1.61241	0.00727514	-1.14636E-05	5.15508E-09

Table B.19 The equation from fit experimental data of 50%w TMPC/PS blends at 299°C of Akcasu's theory.

Angle (Degree)	Value of the Coefficient			
	T^0	T^1	T^2	T^3
23	-0.000202858	-0.0779441	6.07979E-05	-7.04627E-10
25	-0.320882	0.00600336	-1.07915E-05	4.46455E-09
27	-0.12576	0.00262821	-6.49442	3.02107E-09
31	-0.118765	0.00473754	-1.06434E-05	5.09162E-09
33	0.19397	0.00229344	-6.8159E-06	3.56487E-09
35	0.329259	0.00155782	-6.21333E-06	3.55697E-09
37	0.42068	-0.000595344	-2.51245E-06	2.05077E-09
39	0.12253	-0.00148911	3.20437E-07	5.11707E-10
43	0.366048	-0.00288011	2.59792E-06	-3.23071E-10

Table B.20 The equation from fit experimental data of 50%w TMPC/PS blends at 249°C of Akcasu's theory.

Angle (Degree)	Value of the Coefficient			
	T^0	T^1	T^2	T^3
23	-0.711943	0.00731764	-1.48719E-05	7.34202E-09
25	-0.694056	0.00619032	-1.31224E-05	6.74395E-09
27	-0.648099	0.00450798	-9.6782E-06	4.99069E-09
31	-0.553537	0.0037035	-8.57463E-06	4.75515E-09
33	-0.357601	0.00193711	-5.19026E-06	3.12214E-09
35	-0.571394	0.00295577	-6.56084E-06	3.75198E-09
37	-0.823912	0.00242628	-4.22552E-06	2.2985E-09
39	-1.3908	0.00488362	-7.61694E-06	3.78959E-09
43	-1.76677	0.00636014	-8.56466E-06	3.84817E-09

Table B.21 The equation from fit experimental data of 20%w SMA/PMMA blends at 210°C of Akcasu's theory.

Angle (Degree)	Value of the Coefficient			
	T^0	T^1	T^2	T^3
5	1632.91	-4.70076	0.00449957	-1.43272E-06
7	-9.72169E-05	-0.102353	2.10467E-06	-9.78499E-12
9	-0.000210602	-0.229733	4.73914E-06	-2.32949E-11
11	1789.54	-5019525	0.00501031	-1.60605E-06
13	1789.54	-5.19525	0.00501031	-1.60605E-06
15	-98.8829	0.271626	-0.000251029	7.70576E-08
17	-0.000125438	-0.134478	2.87377E-06	-1.42418E-11
19	703.178	-1.98932	0.00186446	-5.80084E-07
21	-17.5524	0.02227	-1.60556	-4.62912E-09
23	269.316	-0.828016	0.000838614	-2.81234E-07
25	573.765	-1.58487	0.00144834	-4.39002E-07
27	-480.409	1.38173	-0.00132331	4.20803E-07
29	-112.457	0.300882	-0.000274548	8.4285E-08
31	662.636	-1.87088	0.00174757	-5.41222E-07
33	139.933	-0.344484	0.000267757	-6.48621E-08
35	-394.447	1.09326	0.0010552	3.14843E-07
37	1199.19	-0.36685	0.00313085	-9.65884E-07
39	-147.348	0.318017	-0.00021301	4.06886E-08
41	-1374.31	3.81105	-0.00352392	1.08531E-06
43	1192.25	-3.36755	0.00315368	-9.80481E-07
45	566.145	-1.618	0.00152941	-4.79563E-07
47	-830.785	2.38088	-0.00227556	7.23768E-07
49	-310.682	0.716771	-0.000543952	1.34501E-07
51	-1657.56	4.57789	-0.00421217	1.2016E-06
53	-1748.99	4.79496	-0.00438242	1.33413E-06
55	443421	-0.117846	9.19503E-05	-2.07745E-08
57	-1466.34	4.00634	-0.00364529	1.10351E-06
59	-3260.13	9.0488	-0.00835465	2.56483E-06
61	2111.49	-5.99428	0.00564439	-1.76486E-06
63	-124.025	0.407905	-0.000450847	1.64577E-07
65	-4911.55	13.7533	-0.012796	3.9536E-06
67	1941.44	-5.73384	0.00559815	-1.80982E-06

Table B.22 The equation from fit experimental data of 30%w SMA/PMMA blends at 210°C of Akcasu's theory.

Angle (Degree)	Value of the Coefficient			
	T^0	T^1	T^2	T^3
5	656.935	-3.49431	0.00602466	3.38096E-06
7	-165.213	0.783599	-0.00128858	7.34471E-07
9	-33.431	0.34987	-0.000877102	6.245E-07
11	16.4494	-0.0598065	5.45766E-05	-8.37978E-09
13	51.2929	-0.282432	0.000492015	-2.79671E-07
15	0.206941	0.0103643	-4.73821E-05	4.05523E-08
17	57.4712	-0.272743	0.000405653	-1.94098E-07
19	38.0006	-0.193092	0.000306856	-1.58396E-07
21	10.5718	-0.0831189	0.00016588	-1.01433E-07
23	20.8008	-0.124592	0.000216199	-1.18792E-07
25	-25.9329	0.103729	-0.000148822	7.28233E-08
27	-54.5813	0.231722	-0.000342019	1.71518E-07
29	69.5466	-0.360485	0.000580186	-2.98948E-07
31	2.96494E-05	0.0555084	2.84239E-06	-4.81405E-11
33	56.4212	-0.289404	0.000461405	-2.36105E-07
35	101.521	-0.548942	0.00093481	-5.13464E-07
37	54.6313	-0.282343	0.00044748	-2.2612E-07
39	8.13219	-0.0908971	0.00192343	-1.1574E-07
41	-25.3808	0.0272687	5.98125E-05	-7.00236E-08
43	-140.111	0.638563	-0.000975805	4.94639E-07
45	34.4606	-0.220419	0.000406675	-2.33568E-07
47	-11.9043	0.0196606	-4.23045E-06	-3.17459E-09
49	-1301.15	5.47481	-0.00762125	3.50918E-06
51	99.6629	-0.610952	0.00111641	-6.39488E-07
53	57.279	-0.374393	0.000696109	-3.99627E-07
55	-98.2886	0.397615	-0.000547901	2.54364E-07
57	248.104	-1.31724	0.00221314	-1.19752E-06
59	-268.897	1.21936	-0.00184988	9.32754E-07
61	-268.897	1.21936	-0.00184988	9.32754E-07
63	-19.9777	0.0590016	-0.000102098	7.63637E-08
65	-27.3165	0.213758	-0.000538317	3.93363E-07
67	116.87	-0.67005	0.00117733	-6.57507E-07

Table B.23 The equation from fit experimental data of 40%w SMA/PMMA blends at 210°C of Akcasu's theory.

Angle (Degree)	Value of the Coefficient			
	T^0	T^1	T^2	T^3
5	797.023	-3.36852	0.00471967	-2.19518E-06
7	-121.019	0.528185	-0.000761156	3.59425E-07
9	195.756	-0.753305	0.00093828	-3.7784E-07
11	1588.06	-6.82886	0.00974848	-4.62302E-06
13	1917.22	-8.60621	0.0128079	-6.32297E-06
15	1194.09	-5.09659	0.00722087	-3.39918E-06
17	-1321.37	5.71886	-0.00821434	3.91254E-06
19	345.684	-1.43732	0.00197439	-8.98737E-07
21	359.575	-1.59799	0.00234918	-1.14589E-06
23	-777.922	3.20513	-0.00439573	2.00448E-06
25	303.878	-1.31132	0.00186463	-8.76917E-07
27	1267.95	-5.30063	0.00735294	-3.38793E-06
29	1260.45	-5.35097	0.00753232	-3.51926E-06
31	-456.442	1.9007	-0.00264269	1.22403E-06
33	1480.97	-6.33664	0.00899371	-4.23779E-06
35	904.284	-3.88335	0.00552523	-2.60811E-06
37	1427.06	-6.07404	0.00858206	-4.02892E-06
39	-257.742	1.07591	-0.00150638	7.04253E-07
41	-2684.87	11.1943	-0.0155307	7.16699E-06
43	532.929	-2.18285	0.00295158	-1.32026E-06
45	1584.31	-6.77942	0.00962941	-4.51546E-06
47	-185.198	0.689269	-0.000849711	3.44446E-07
49	3662.93	-16.0824	0.0232291	-0.000011069
51	-302.266	1.26759	-0.00178657	8.43048E-07
53	-1792.15	7.45422	-0.0103171	4.74844E-06
55	908.533	-3.86777	0.00546399	-2.56483E-06
57	1871.07	-7.93623	0.011163	-5.21082E-06
59	69.0785	-0.229496	0.000224859	-5.86353E-08
61	-134.935	0.57084	-0.000815644	3.89963E-07
63	-114.31	0.490966	-0.000716217	3.49972E-07
65	-1016.04	4.34364	-0.0061965	2.94599E-06
67	2010.73	-8.54455	0.0120523	-5.64666E-06

C. Results from the fit data of Nauman's theory

Table C.1 The equation from fit experimental data of Nauman's theory from three compositions of TMPC/PS blends at different temperature.

Compositio (%w)	Temperature (°C)	Value of the Coefficient							
		Part A (multiplied by q^2)				Part B (multiplied by q^4)			
		T^0	T^1	T^2	T^3	T^0	T^1	T^2	T^3
30	266	-522.387	-1.06624	0.0049893	-3.2731E-06	0	0	2.566E-40	4.044E-27
	269	-3.687E-06	1.644E-08	-2.159E-11	8.58442E-15	7.99396E-10	-3.59E-12	4.692E-15	-1.86E-18
	271	-97.0041	-0.889632	0.0011948	-5.0444E-07	0	-2.76E-24	2.494E-12	-1.45E-24
	273	-37.529	-0.199229	0.0016431	8.16956E-09	31319300	-2659.9	91.9041	-0.074225
	275	-1219.86	7.89806	-0.0158256	9.29287E-06	0	0	1.09E-26	1.606E-17
50 (Solvent Casting)	237	-437.811	6.88683	-0.0168977	7.73247E-06	0	1.104E-54	5.194E-40	5.568E-27
	239	-1384.3	10.1969	-0.0222872	1.46096E-05	0	-3.25E-22	3.274E-11	-2.4E-22
	242	330.291	-2.7629	0.0072575	-5.6658E-06	-31030700	374921	-520.494	0.0266223
	245	-345.085	2.91146	-0.0049151	2.17799E-06	0	-1.3E-21	5.872E-11	-1.02E-21
	247	-10189	175.6	-0.840327	0.00119411	0	-7.17E-23	1.398E-11	-4.03E-23
50 (Melt mixed)	249	36.2275	-0.146766	0.000292	-1.7617E-07	0	0	7.494E-33	3.839E-22
	250	114.886	-0.726906	0.0024869	-2.5509E-06	-1.635E+10	203828	-669.328	0.688195
	251	124.118	-0.470414	0.0011966	-9.7233E-07	0	-7.58E-29	3.307E-18	-6.35E-29
	252	120.42	-0.585473	0.0018315	-1.8288E-06	-40279700	331371	-1011.69	0.993558
	253	86.6912	-0.152638	0.0001296	-1.0047E-08	0	-1.97E-17	8.859E-11	-2.71E-21
70	293	79.1909	0.434809	-0.0006153	1.15342E-07	0	-8.03E-25	1.122E-12	-2.93E-25
	295	128.899	0.435562	-0.0007388	-2.5476E-08	-33481700	85062.8	-600.725	0.756845
	297	-126.13	2.09584	-0.0054335	2.31797E-06	251872000	-2390950	5538.42	-2.26999
	299	-1503.95	16.9352	-0.0363744	1.55417E-05	1797240000	-17755100	37028.1	-15.649
	301	70.5837	0.478135	-0.0018023	1.04338E-06	0	5.64E-16	1.842E-12	-8.23E-25

Table C.2 The equation from fit experimental data of Nauman's theory from three compositions of SMA/PMMA blends at 210°C.

Composition (%w)	Value of the Coefficient							
	Part A (multiplied by q2)				Part B (multiplied by q4)			
	T^0	T^1	T^2	T^3	T^0	T^1	T^2	T^3
20	-50341.4	136.745	-0.123852	0.0003741	160580000	-437121	396.501	0.119966
30	-152822	691.564	-1.03355	0.00051058	514622000	-2328010	3474.51	-1.71322
40	1980490	-8830.69	12.972	-0.0062885	-6036040000	26805600	-39245.9	18.9721

D. Results of percent relative average error of each theory

Table D.1 The percent relative average error of 30%w TMPC/PS blends at 266°C.

Angle (degree)	Theory			
	Cahn-Hilliard	LBM	Akcasu	Nauman
19	4.1	3.7	1.6	27.7
21	3.4	2.8	1.3	37.2
23	5.0	4.1	1.8	39.6
25	3.9	3.8	1.6	56.1
27	3.8	3.1	1.6	79.7
29	5.3	4.1	2.4	64.7
31	4.5	3.3	2.2	101.2
33	7.5	3.7	1.9	113.8
35	8.9	3.9	2.5	118.2
37	16.8	3.8	2.1	129.4
39	17.2	3.7	2.5	142.0
41	26.5	4.4	2.8	108.4
43	35.0	3.5	2.3	130.2
45	42.6	3.0	2.1	163.6
47	70.8	3.8	3.0	120.2
49	322.4	10.4	7.9	37.9
51	116.9	3.7	3.2	119.9
53	110.6	3.3	2.8	131.6
55	127.5	3.3	3.1	110.7
57	169.2	3.1	3.0	113.6
59	214.8	3.3	3.3	101.0
61	232.6	2.5	2.6	134.4
63	258.6	2.4	2.5	127.2
65	176.3	2.8	2.4	146.3
67	387.4	3.6	3.6	88.2

Table D.2 The percent relative average error of 30%w TMPC/PS blends at 269°C.

Angle (degree)	Theory			
	Cahn-Hilliard	LBM	Akcasu	Nauman
19	3.2	1.7	1.3	1.4
21	2.1	1.4	1.4	1.4
23	6.3	2.5	1.9	2.0
25	2.0	1.8	1.5	1.6
27	2.1	1.8	1.5	1.6
29	5.1	3.3	2.3	2.4
31	3.9	2.3	1.8	1.9
33	4.7	2.1	1.9	2.1
35	9.0	2.4	2.0	2.1
37	16.1	2.8	2.3	2.4
39	18.0	2.5	1.9	2.2
41	34.1	3.2	3.0	3.2
43	37.6	2.9	2.4	2.5
45	49.6	2.3	2.0	2.3
47	87.7	3.1	2.3	2.6
49	521.3	6.2	5.3	5.6
51	159.0	3.1	2.4	2.7
53	254.9	3.5	2.6	2.7
55	236.3	2.9	2.5	2.6
57	388.6	3.2	2.5	2.6
59	303.6	3.1	2.9	3.0
61	358.7	2.5	2.5	2.8
63	289.8	2.7	2.4	2.5
65	298.1	3.0	2.5	2.6
67	509.7	3.5	3.3	3.4

Table D.3 The percent relative average error of 30%w TMPC/PS blends at 271°C.

Angle (degree)	Theory			
	Cahn-Hilliard	LBM	Akcasu	Nauman
19	5.1	2.9	1.8	7.4
21	4.2	2.3	1.9	10.0
23	5.3	3.2	2.0	11.7
25	6.0	2.7	2.0	16.1
27	10.6	3.8	1.9	21.1
29	13.0	3.7	2.6	23.1
31	15.6	3.3	1.9	30.2
33	22.9	3.9	2.3	35.4
35	27.2	3.9	2.5	37.7
37	42.9	3.8	2.3	42.9
39	56.4	4.0	2.6	43.7
41	79.3	4.6	2.9	43.1
43	107.1	4.3	2.9	47.2
45	117.9	4.0	2.8	51.2
49	319.9	5.1	3.8	41.2
51	233.4	4.0	3.2	50.2
53	277.5	3.9	3.0	56.0
55	278.4	4.2	3.1	49.1
57	364.7	4.0	3.1	53.5
59	324.6	3.7	2.8	53.9
61	320.5	4.0	3.0	47.6
63	280.1	3.6	3.1	45.4
65	277.4	3.2	355.7	39.8
67	393.7	3.9	3.6	6430.0

Table D.4 The percent relative average error of 30%w TMPC/PS blends at 273°C.

Angle (degree)	Theory			
	Cahn-Hilliard	LBM	Akcasu	Nauman
15	6.4	3.4	2.2	2.7
17	10.9	4.8	3.0	3.2
19	4.5	2.4	2.1	4.2
21	5.1	2.3	1.9	5.0
23	11.1	3.2	2.4	6.3
25	10.6	2.3	2.1	7.6
27	15.2	2.6	2.5	9.9
29	32.7	3.2	2.6	10.0
31	44.1	2.8	2.9	12.4
33	62.0	2.6	2.3	13.6
35	94.3	3.2	3.2	13.7
37	129.3	2.9	2.6	14.2
39	263.1	3.2	3.4	13.1
41	325.4	2.9	2.9	11.5
43	544.3	2.6	3.0	10.3
45	576.3	2.8	2.8	9.0
47	923.7	3.0	3.3	7.1
49	2200.9	4.1	3.7	5.8
51	1665.0	2.8	3.3	4.9
53	1974.1	2.8	3.0	4.4
55	1940.6	2.7	3.3	4.8
57	2917.9	3.0	2.8	6.1
59	2745.8	3.1	3.5	7.2
61	5021.2	2.3	2.5	10.5
63	4476.6	2.4	3.0	11.1
65	4764.5	2.4	2.9	15.2
67	5602.6	3.5	3.6	12.7

Table D.5 The percent relative average error of 30%w TMPC/PS blends at 275°C.

Angle (degree)	Theory			
	Cahn-Hilliard	LBM	Akcasu	Nauman
15	3.3	2.6	2.3	4.0
17	5.3	3.7	3.6	4.4
19	4.5	2.4	1.9	6.9
21	5.9	2.0	2.0	9.1
23	11.2	2.9	2.8	11.0
25	17.8	2.2	2.1	14.0
27	23.6	2.3	2.4	18.7
29	37.4	2.8	2.7	19.3
31	62.9	2.5	2.8	25.3
33	73.5	2.4	2.5	30.2
35	158.6	2.7	3.1	32.9
37	266.6	2.3	2.7	37.6
39	399.8	2.7	3.3	39.4
41	648.7	3.2	4.0	39.0
43	757.6	2.9	3.4	43.0
45	1045.7	2.7	2.8	46.7
47	2621.8	2.9	3.3	42.7
49	36556.3	4.5	4.8	36.3
51	4801.5	2.9	3.7	44.9
53	9792.0	2.6	3.4	49.9
55	11469.1	3.0	3.5	42.7
57	22011.4	2.7	2.9	46.6
59	18922.6	2.7	5.4	40.5
61	30030.9	2.5	3.1	47.6
63	17233.3	2.7	3.2	41.1
65	18323.7	2.9	3.4	46.9
67	48818.3	3.3	3.7	33.7

Table D.6 The percent relative average error of 50%w TMPC/PS blends (Prepared by solvent casting) at 237°C.

Angle (degree)	Theory			
	Cahn-Hilliard	LBM	Akcasu	Nauman
13	3.6	0.5	0.4	41.4
15	2.6	0.6	0.5	52.9
17	5.3	0.8	0.4	63.9
19	7.2	0.6	0.5	79.6
21	11.2	0.8	0.6	86.2
23	19.4	0.7	0.6	96.9
25	23.5	0.6	0.6	99.8
27	34.4	0.8	0.7	108.0
29	43.3	0.9	0.8	107.0
31	58.8	1.3	0.8	108.1
33	71.4	1.4	0.9	117.4
35	114.8	1.5	1.0	102.9
37	142.0	1.8	1.0	110.0
39	155.2	1.9	1.2	100.3
41	232.1	2.4	1.4	85.8
43	196.6	2.3	1.4	84.9
45	259.3	2.4	1.5	94.2
47	43.0	32.7	8.9	1135.4
49	520.3	3.2	2.7	62.4
51	456.8	2.6	2.3	78.0
53	518.9	2.5	2.2	88.5
55	765.7	2.3	2.5	75.7
57	745.0	2.6	2.7	85.5
59	772.2	2.4	2.9	76.3
61	599.8	2.5	2.8	86.6
63	883.6	2.6	3.3	79.4
65	637.8	2.6	3.0	92.4
67	530.6	3.7	4.4	61.8

Table D.7 The percent relative average error of 50%w TMPC/PS blends (Prepared by solvent casting) at 239°C.

Angle (degree)	Theory			
	Cahn-Hilliard	LBM	Akcasu	Nauman
13	8.2	0.6	0.4	4.1
15	8.2	0.6	0.4	5.7
17	7.3	0.8	0.5	7.1
19	4.7	0.7	0.4	8.3
21	4.7	0.8	0.5	9.7
23	5.9	0.9	0.5	8.4
25	6.9	1.0	0.5	9.5
27	8.6	0.8	0.5	10.1
29	16.0	0.9	0.6	10.1
31	21.9	0.9	0.7	10.5
33	28.2	0.8	0.7	12.1
35	35.3	0.9	0.7	11.3
37	49.3	1.1	0.8	11.0
39	82.9	1.6	0.9	10.5
41	134.8	1.9	1.1	9.1
43	140.3	2.0	1.0	10.1
45	111.7	1.8	1.0	13.2
47	222.3	2.5	1.6	10.6
49	2054.3	4.2	2.4	6.0
51	285.5	2.9	1.8	10.6
53	543.2	2.8	1.7	12.1
55	555.3	3.1	1.4	10.7
57	803.5	3.3	1.7	11.7
59	544.1	2.7	1.8	11.0
61	493.7	3.2	1.8	12.8
63	355.7	2.4	2.0	12.1
65	307.9	2.8	2.1	14.2
67	712.6	3.5	3.1	9.1

Table D.8 The percent relative average error of 50%w TMPC/PS blends (Prepared by solvent casting) at 242°C.

Angle (degree)	Theory			
	Cahn-Hilliard	LBM	Akcasu	Nauman
13	12.2	0.4	0.4	1.9
15	9.8	0.3	0.3	2.4
17	7.0	0.6	0.4	2.9
19	8.3	0.6	0.4	3.4
21	7.8	0.9	0.4	3.8
23	7.2	1.0	0.5	3.7
25	8.4	1.1	0.4	3.8
27	10.5	0.8	0.5	4.2
29	17.6	0.9	0.6	4.7
31	22.4	1.0	0.7	4.9
33	31.1	0.9	0.7	5.0
35	52.3	0.9	0.7	5.1
37	72.8	1.2	0.7	5.1
39	129.5	1.7	0.8	5.2
41	144.5	1.8	1.0	5.1
43	176.6	1.7	1.1	5.0
45	170.5	1.9	0.9	6.5
47	265.6	2.1	1.1	6.3
49	439.9	2.6	1.2	6.1
51	380.0	2.3	1.6	10.3
53	646.8	2.7	1.2	32.5
55	488.2	2.7	1.4	7.0
57	713.3	2.6	1.6	8.1
59	813.2	2.8	1.9	7.2
61	794.8	2.6	1.9	8.8
63	711.8	2.4	1.7	7.7
65	540.5	2.5	2.2	9.0
67	1066.5	2.9	2.6	7.0

Table D.9 The percent relative average error of 50%w TMPC/PS blends (Prepared by solvent casting) at 245°C.

Angle (degree)	Theory			
	Cahn-Hilliard	LBM	Akcasu	Nauman
13	10.0	0.9	0.4	3.6
15	8.4	1.2	0.4	5.1
17	13.4	1.9	0.8	5.9
19	17.1	1.5	0.5	7.9
21	23.1	1.3	0.5	8.3
23	45.1	25.6	0.6	8.6
25	63.7	1.2	0.6	9.3
27	86.4	1.4	0.6	10.0
29	158.2	2.0	0.9	8.0
31	168.9	2.4	0.9	8.3
33	277.7	3.1	0.9	8.7
35	372.8	4.0	1.3	7.5
37	636.7	4.5	1.3	7.6
39	615.2	4.4	1.3	6.8
41	3630.3	6.6	2.3	5.5
43	2276.8	6.4	1.8	6.0
45	651.0	4.7	1.3	7.8
47	2675.4	5.0	2.3	5.1
49	-	-	-	-
51	3215.6	4.8	2.6	5.3
53	2663.8	5.7	2.8	5.9
55	4042.5	4.5	2.9	5.2
57	5392.0	4.9	3.1	5.5
59	1449.2	4.8	3.9	5.7
61	1312.8	4.1	3.1	7.0
63	910.3	3.3	2.9	6.7
65	580.7	3.3	2.9	8.9
67	2141.7	5.2	5.8	6.7

Table D.10 The percent relative average error of 50%w TMPC/PS blends (Prepared by solvent casting) at 247°C.

Angle (degree)	Theory			
	Cahn-Hilliard	LBM	Akcasu	Nauman
13	11.1	0.6	0.3	22.2
15	9.3	1.0	0.4	27.8
17	9.4	1.2	0.4	30.2
19	8.0	1.1	0.4	41.3
21	11.9	1.3	0.4	43.3
23	17.5	1.3	0.4	40.1
25	22.6	1.1	0.4	43.7
27	31.0	0.9	0.5	44.0
29	64.5	1.2	0.5	45.1
31	69.2	1.2	0.5	47.7
33	111.3	1.7	0.6	51.7
35	175.5	2.3	0.7	47.1
37	262.0	3.0	0.8	47.6
39	359.5	3.1	0.9	42.8
41	489.2	3.5	1.1	40.1
43	834.5	3.7	0.9	39.8
45	723.9	3.7	1.0	54.5
47	1598.4	3.6	1.2	45.4
49	-	2.9	2.6	28.9
51	2913.7	3.4	1.5	46.0
53	2643.4	3.4	1.6	51.2
55	3707.1	3.3	1.5	44.1
57	5310.2	2.9	1.6	49.3
59	2689.8	3.3	2.0	42.9
61	3787.5	2.9	1.8	53.2
63	1437.1	2.6	2.0	48.5
65	1227.6	2.4	1.7	57.4
67	2948.7	2.9	2.5	38.1

Table D.11 The percent relative average error of 50%w TMPC/PS blends (Prepared by melt mixed) at 249°C.

Angle (degree)	Theory			
	Cahn-Hilliard	LBM	Akcasu	Nauman
13	484.2	4.0	1.5	11.2
15	460.6	6.0	1.7	12.5
17	1554.0	4.5	1.7	10.8
19	993.3	4.4	2.0	11.6
21	2775.1	4.4	2.1	10.0
23	4570.2	5.0	2.5	10.3
25	8094.3	3.8	2.2	9.2
27	16218.6	5.0	2.7	9.2
29	37401.9	5.5	3.1	8.4
31	25532.0	5.2	3.3	8.6
33	48017.2	6.0	2.6	7.9
35	41948.7	6.1	2.9	7.7
37	59109.6	5.8	2.3	7.2
39	101821.4	6.3	3.0	6.9
41	768917.7	5.3	2.8	6.6
43	335090.4	6.0	2.7	6.5
45	850402.3	5.3	2.3	6.4
47	1538484.7	6.1	4.7	7.5
49	747691.6	5.5	2.6	6.0
51	495150.8	5.5	2.8	6.2
53	1705678.6	5.1	2.2	6.6
55	359772.1	4.6	2.2	5.9
57	5896120.6	4.3	1.8	6.4
59	6972924.7	4.2	2.3	5.5
61	1253148.5	4.3	1.8	6.0
63	3915803.3	4.4	1.7	5.4
65	154263.2	14.0	1.5	4.9
67	2105746.4	4.0	1.8	4.9

Table D.12 The percent relative average error of 50%w TMPC/PS blends (Prepared by melt mixed) at 250°C.

Angle (degree)	Theory			
	Cahn-Hilliard	LBM	Akcasu	Nauman
13	218.2	2.7	0.4	9.8
15	250.2	2.1	0.3	9.7
17	1292.7	5.3	0.5	8.7
19	1302.8	7.8	0.7	8.6
21	1711.7	6.7	0.7	7.9
23	3966.9	8.0	0.8	7.1
25	6446.5	8.1	0.9	6.8
27	16417.7	6.6	0.9	6.6
29	35707.1	4.8	0.8	6.1
31	75408.8	5.6	0.8	6.4
33	66485.0	4.3	8.9	6.2
35	46580.0	4.5	0.8	5.9
37	200328.0	6.0	0.9	6.0
39	104038.0	5.5	0.9	5.7
41	171470.0	6.5	0.9	5.8
43	567274.0	7.2	0.9	6.0
45	528676.0	7.9	1.0	6.4
47	651599.0	7.6	1.1	6.2
49	4834348.0	7.6	1.2	6.1
51	787196.0	6.7	1.1	7.0
53	1192223.0	7.9	1.2	8.1
55	1649061.0	8.5	1.1	7.6
57	821305.0	7.7	1.2	8.8
59	574379.0	7.7	1.3	8.2
61	510093.0	7.0	1.2	9.6
63	518036.0	7.0	1.4	9.3
65	42854.0	5.2	1.4	9.4
67	537913.0	8.9	1.5	9.0

Table D.13 The percent relative average error of 50%w TMPC/PS blends (Prepared by melt mixed) at 251°C.

Angle (degree)	Theory			
	Cahn-Hilliard	LBM	Akcasu	Nauman
13	4482.4	10.2	1.3	17.1
15	5247.0	7.1	1.1	17.2
17	2253.1	5.9	1.5	17.3
19	3136.7	4.2	1.0	17.6
21	9626.4	5.3	1.7	16.1
23	13500.4	5.5	1.2	16.4
25	28332.2	5.0	1.5	14.8
27	77997.9	5.9	1.4	15.0
29	2996.1	6.6	1.5	14.2
31	77251.0	6.0	1.4	14.2
33	47031.6	6.4	1.5	14.1
35	320618.8	6.5	1.4	13.8
37	190194.1	7.0	1.4	13.9
39	558031.2	7.1	1.4	13.6
41	1086928.6	7.1	1.5	13.4
43	534477.0	7.8	1.4	13.6
45	296513.0	7.2	1.5	14.1
47	377563.9	6.0	1.4	13.5
49	1337760.4	8.1	1.8	13.6
51	1006198.1	6.6	1.6	14.3
53	739157.7	7.1	1.7	15.7
55	638386.2	7.0	1.6	14.5
57	738454.7	7.0	1.8	15.7
59	305926.9	5.5	1.7	14.0
61	445538.4	6.2	1.8	13.6
63	131847.1	5.5	1.7	14.2
65	75873.1	4.1	1.3	10.8
67	3411809.6	5.3	2.0	13.0

Table D.14 The percent relative average error of 50%w TMPC/PS blends (Prepared by melt mixed) at 252°C.

Angle (degree)	Theory			
	Cahn-Hilliard	**LBM**	**Akcasu**	**Nauman**
13	6895	12.7	1.3	13.7
15	13216	11.2	1.3	15.0
17	64308	11.1	1.6	12.4
19	760797	6.7	1.1	18.0
21	51172	7.2	1.3	11.6
23	315342	7.0	1.3	11.7
25	117358	6.0	1.4	10.8
27	1578323	6.6	1.4	10.7
29	425262	7.9	1.5	9.7
31	9202298	7.3	1.5	9.8
33	1866885	6.8	1.5	9.7
35	1505392	8.2	1.7	9.4
37	659813	6.2	1.6	8.8
39	1219819	6.7	1.5	8.8
41	191043	7.5	1.8	7.8
43	504588	7.3	1.3	7.9
45	58694	4.9	1.5	7.8
47	166953	6.5	1.5	7.4
49	1259975	6.9	1.6	6.6
51	2432587	6.6	1.5	7.4
53	6098115	6.4	1.4	2.7
55	1262696	5.5	1.4	6.9
57	1414000	5.8	1.4	7.2
59	882251	5.3	1.4	6.4
61	565684	4.5	1.4	6.3
63	778026	5.3	1.4	6.2
65	111487	3.3	1.3	5.2
67	285236	4.6	1.7	5.2

Table D.15 The percent relative average error of 50%w TMPC/PS blends (Prepared by melt mixed) at 253°C.

Angle (degree)	Theory			
	Cahn-Hilliard	LBM	Akcasu	Nauman
13	22339.5	12.7	1.2	13.9
15	334528.0	7.1	1.4	12.9
17	257476.0	10.0	1.5	12.1
19	576663.0	8.5	1.5	11.9
21	693471.0	6.8	1.4	11.3
23	1176260.0	6.9	1.2	10.9
25	4170333.0	7.9	1.2	10.7
27	7884679.0	9.5	1.4	10.3
29	25587570.0	10.7	1.3	10.1
31	31922284.0	9.1	1.4	10.0
33	14806076.0	9.0	1.5	10.1
35	28943468.0	8.3	1.5	9.9
37	110013810.0	10.6	1.7	10.2
39	31743999.0	7.2	1.6	9.7
41	53844717.0	11.1	1.7	9.1
43	121604752.0	8.8	1.6	9.0
45	59140791.0	6.9	1.6	9.2
47	282926743.0	7.6	1.7	8.7
49	202818076.0	7.8	1.7	7.9
51	59232231.0	7.5	1.5	9.0
53	809654961.0	7.2	1.6	9.5
55	164730866.0	6.6	1.6	8.8
57	701272698.0	6.3	1.4	9.3
59	142808941.0	6.3	1.6	8.3
61	41877264.0	5.2	1.5	8.4
63	262706135.0	5.3	1.6	8.4
65	1808614.0	3.9	1.5	7.0
67	219161989.0	5.3	1.8	7.5

Table D.16 The percent relative average error of 70%w TMPC/PS blends at 293°C.

Angle (degree)	Theory			
	Cahn-Hilliard	LBM	Akcasu	Nauman
23	25.5	2.2	1.5	5.6
25	30.6	1.8	1.1	6.8
27	32.1	1.7	1.2	8.3
31	27.5	2.1	1.5	10.2
33	27.6	2.2	1.5	12.3
35	23.5	2.5	1.7	12.7
37	29.3	2.9	1.7	14.4
39	24.3	2.4	1.8	14.7
43	21.9	3.1	1.7	15.9

Table D.17 The percent relative average error of 70%w TMPC/PS blends at 295°C.

Angle (degree)	Theory			
	Cahn-Hilliard	LBM	Akcasu	Nauman
23	36.2	2.1	1.5	4.7
25	50.5	2.2	1.3	5.3
27	33.7	1.3	1.0	6.1
31	41.7	2.3	1.4	5.5
33	35.3	2.5	1.6	5.6
35	38.4	2.7	1.8	5.3
37	30.2	3.1	1.8	6.0
39	27.4	3.2	1.7	7.4
43	23.0	2.4	1.9	9.1

Table D.18 The percent relative average error of 70%w TMPC/PS blends at 297°C.

Angle (degree)	Theory			
	Cahn-Hilliard	LBM	Akcasu	Nauman
23	33.0	145.6	2.2	11.0
25	28.5	179.0	1.4	21.2
27	16.9	38.9	1.1	36.6
31	30.1	47.9	1.6	27.5
33	30.8	14.9	2.0	24.9
35	27.7	14.6	2.3	17.8
37	37.6	14.4	2.3	12.8
39	24.4	26.3	1.7	5.9
43	43.8	26.7	2.2	21.8

Table D.19 The percent relative average error of 70%w TMPC/PS blends at 299°C.

Angle (degree)	Theory			
	Cahn-Hilliard	LBM	Akcasu	Nauman
23	58.1	192.9	25.4	25.1
25	31.8	39.7	1.7	73.9
27	15.9	11.0	1.2	132.3
31	32.2	31.2	2.1	84.7
33	43.3	47.5	2.4	69.6
35	53.9	65.5	3.1	46.3
37	66.0	99.7	2.7	33.1
39	45.8	17.8	3.9	11.6
43	114.2	74.0	3.1	49.4

Table D.20 The percent relative average error of 70%w TMPC/PS blends at 301°C.

Angle	Theory			
(degree)	Cahn-Hilliard	LBM	Akcasu	Nauman
23	49.6	21.0	2.5	8.7
25	48.3	4.7	2.1	11.9
27	43.0	4.1	2.0	16.1
31	68.2	7.4	2.4	17.9
33	104.9	9.0	2.9	19.6
35	142.1	9.8	2.9	19.1
37	119.2	9.6	3.5	21.1
39	98.2	7.8	2.9	22.9
43	206.3	8.1	3.7	20.6

Table D.21 The percent relative average error from three compositions of SMA/PMMA blends.

Angle (Degree)	Theory											
	Cahn-Hilliard			Nauman			Langer, Bar-on and Miller			Akcasu		
	20%	30%	40%	20%	30%	40%	20%	30%	40%	20%	30%	40%
5	17.8	0.9	220.4	0.9	0.5	0.9	0.6	0.6	-	0.9	0.6	1.0
7	59.0	1.5	67.5	1.5	1.0	6.7	1.1	0.8	32.4	1.8	1.0	1.4
9	124.4	5.3	199.5	4.1	2.0	9.2	2.8	1.6	10.3	4.9	2.1	15.2
11	111.7	23.1	163.8	2.5	2.1	8.6	1.8	1.4	13.1	2.5	2.0	2.3
13	219.1	55.7	102.7	4.1	4.2	5.4	3.1	2.9	9.6	4.1	3.9	4.4
15	232.2	50.3	446.7	3.5	3.8	15.4	2.8	2.3	7.9	3.5	11.6	4.6
17	510.6	93.9	697.6	8.5	5.8	16.2	5.1	3.3	4.5	3.5	4.9	7.9
19	379.6	93.9	471.7	4.5	5.1	14.4	2.9	2.9	7.0	4.4	4.1	4.8
21	384.4	129.5	503.8	4.6	6.9	14.6	3.5	3.8	6.8	4.6	9.1	4.7
23	687.5	152.3	743.9	5.7	7.6	14.9	4.3	4.1	5.6	5.7	6.1	5.1
25	799.1	164.3	694.3	6.4	7.3	15.9	4.5	4.4	5.7	6.4	6.1	5.5
27	819.0	237.8	1004.5	6.9	9.6	21.9	4.9	5.7	5.5	6.9	8.4	7.1
29	998.1	219.6	1430.7	8.9	9.7	23.4	6.0	6.2	4.8	8.9	8.6	9.0
31	921.2	236.6	1830.5	6.8	8.6	25.7	4.7	5.0	5.1	6.8	21.4	8.0
33	818.3	240.2	1046.2	7.0	9.0	20.8	6.1	5.7	5.4	7.0	7.3	8.1
35	1179.7	247.8	1877.4	9.4	10.8	24.4	6.0	6.3	4.9	9.3	9.2	8.9
37	954.1	271.1	1450.7	10.2	10.4	21.7	7.4	7.0	4.3	10.3	9.6	10.9
39	1251.6	366.7	1480.5	8.2	12.9	22.0	5.5	8.0	4.4	8.4	12.0	9.6
41	3253.3	546.0	5891.4	12.5	16.9	35.1	8.6	11.4	3.0	13.1	16.3	20.3
43	1578.7	399.9	3362.7	8.6	11.6	27.5	5.9	7.3	3.5	8.6	10.6	11.3
45	1149.5	313.3	1101.2	8.6	9.6	16.4	5.6	6.6	4.5	8.6	8.6	7.7
47	1293.4	366.8	2699.5	9.9	13.3	21.7	6.9	8.5	3.6	10.1	12.3	7.8
49	10230.8	897.3	695.5	21.9	41.1	53.8	14.4	28.2	1.2	24.2	62.2	11.0
51	3926.2	620.2	3880.1	13.3	17.3	22.5	13.4	-	3.0	13.6	16.7	10.2
53	1762.2	532.6	2104.9	14.4	16.1	25.3	10.0	11.2	3.1	15.2	15.5	18.4
55	1503.7	341.7	2285.8	9.4	13.2	20.1	7.3	8.2	3.2	9.4	12.6	8.7
57	1392.3	317.3	1805.9	11.1	15.0	22.3	7.4	9.9	3.0	11.6	14.4	14.7
59	32.9	488.1	1419.0	15.7	15.9	19.2	10.7	-	2.9	16.9	15.7	12.2
61	1238.7	312.4	2859.6	13.4	16.5	20.5	9.2	-	3.0	13.7	16.5	11.6
63	1120.8	300.5	1312.0	12.4	11.5	21.9	8.4	7.6	3.6	12.4	11.2	16.1
65	548.5	152.8	703.7	16.1	16.7	13.8	11.0	11.4	3.6	17.0	17.1	11.0
67	1155.2	276.0	3027.6	14.3	14.3	20.8	9.7	9.9	2.9	15.2	13.8	12.4

E. The value of R(q), q and Intensity factor ($S(q,o)-S_x(q)$)

Table E.1 The value of R(q), q and Intensity factor ($S(q,o)-S_x(q)$) of 30%w TMPC/PS blends at 266°C.

no.diode	degree	q	S(q,o)-Sx(q)	R(q)
8	19	0.000523	117.10599	0.000322
9	21	0.000577	125.08175	0.000339
10	23	0.000631	82.02547	0.000451
11	25	0.000686	92.61192	0.000481
12	27	0.000739	105.48417	0.000524
13	29	0.000793	70.48808	0.000534
14	31	0.000846	96.15296	0.000554
15	33	0.000900	91.44137	0.000609
16	35	0.000952	83.82198	0.000625
17	37	0.001005	81.14731	0.000700
18	39	0.001057	85.68186	0.000680
19	41	0.001109	61.91238	0.000726
20	43	0.001161	72.69649	0.000746
21	45	0.001212	83.95741	0.000777
22	47	0.001263	65.66329	0.000826
23	49	0.001314	30.90463	0.000958
24	51	0.001364	63.37874	0.000900
25	53	0.001413	71.04491	0.000847
26	55	0.001463	62.19953	0.000832
27	57	0.001511	63.72911	0.000881
28	59	0.001560	54.86577	0.000933
29	61	0.001608	62.35311	0.000998
30	63	0.001655	54.20655	0.001038
31	65	0.001702	60.38794	0.000910
32	67	0.001748	41.32073	0.001068

Table E.2 The value of R(q), q and Intensity factor ($S(q,o)-S_x(q)$) of 30%w TMPC/PS blends at 269°C.

no.diode	degree	q	$S(q,o)-S_x(q)$	R(q)
5	13	0.000359	-	0
6	15	0.000413	-	0
7	17	0.000468	-	0
8	19	0.000523	70.96950	0.000421
9	21	0.000577	75.14736	0.000473
10	23	0.000631	50.24255	0.000568
11	25	0.000686	54.57773	0.000619
12	27	0.000739	61.14448	0.000675
13	29	0.000793	35.16435	0.000775
14	31	0.000846	47.54300	0.000819
15	33	0.000900	47.02776	0.000858
16	35	0.000952	39.73897	0.000957
17	37	0.001005	38.21900	0.001074
18	39	0.001057	39.79643	0.001063
19	41	0.001109	25.30364	0.001277
20	43	0.001161	33.26588	0.001214
21	45	0.001212	38.93632	0.001261
22	47	0.001263	26.85143	0.001461
23	49	0.001314	6.73274	0.002372
24	51	0.001364	27.15594	0.001589
25	53	0.001413	26.12703	0.001779
26	55	0.001463	24.77511	0.001687
27	57	0.001511	24.09362	0.001859
28	59	0.001560	24.62396	0.001675
29	61	0.001608	27.61379	0.001755
30	63	0.001655	28.37642	0.001589
31	65	0.001702	29.56045	0.001596
32	67	0.001748	19.34048	0.001778

Table E.3 The value of R(q), q and Intensity factor ($S(q,o)-S_x(q)$) of 30%w TMPC/PS blends at 271°C.

no.diode	degree	q	$S(q,o)-S_x(q)$	R(q)
5	13	0.000359	-	0
6	15	0.000413	-	0
7	17	0.000468	-	0
8	19	0.000523	71.95073	0.000633
9	21	0.000577	72.18210	0.000697
10	23	0.000631	64.96825	0.000772
11	25	0.000686	65.59805	0.000855
12	27	0.000739	68.18999	0.000953
13	29	0.000793	58.03524	0.001034
14	31	0.000846	64.70435	0.001073
15	33	0.000900	66.12492	0.001130
16	35	0.000952	61.01532	0.001171
17	37	0.001005	60.97033	0.001266
18	39	0.001057	59.04195	0.001291
19	41	0.001109	52.79298	0.001369
20	43	0.001161	53.52570	0.001449
21	45	0.001212	57.01670	0.001438
22	47	0.001263		0.000000
23	49	0.001314	42.33730	0.001673
24	51	0.001364	51.26765	0.001548
25	53	0.001413	53.99393	0.001591
26	55	0.001463	49.49672	0.001520
27	57	0.001511	49.97979	0.001628
28	59	0.001560	46.27821	0.001515
29	61	0.001608	50.30516	0.001506
30	63	0.001655	45.91045	0.001406
31	65	0.001702	41.10451	0.001420
32	67	0.001748	36.06454	0.001494

Table E.4 The value of R(q), q and Intensity factor ($S(q,o)-S_x(q)$) of 30%w TMPC/PS blends at 273°C.

no.diode	degree	q	$S(q,o)-S_x(q)$	R(q)
5	13	0.000359	-	0
6	15	0.000413	125.56599	0.000604
7	17	0.000468	68.86187	0.000693
8	19	0.000523	136.67390	0.000789
9	21	0.000577	137.47489	0.000824
10	23	0.000631	101.52880	0.001094
11	25	0.000686	116.90150	0.001067
12	27	0.000739	114.61439	0.001219
13	29	0.000793	91.62046	0.001416
14	31	0.000846	99.67963	0.001524
15	33	0.000900	100.57971	0.001626
16	35	0.000952	89.64540	0.001787
17	37	0.001005	93.50788	0.001878
18	39	0.001057	83.03480	0.002153
19	41	0.001109	77.00434	0.002203
20	43	0.001161	73.97680	0.002405
21	45	0.001212	82.16686	0.002356
22	47	0.001263	72.43668	0.002501
23	49	0.001314	56.44761	0.002856
24	51	0.001364	72.19779	0.002655
25	53	0.001413	79.67152	0.002681
26	55	0.001463	71.78624	0.002585
27	57	0.001511	76.15879	0.002740
28	59	0.001560	68.79090	0.002637
29	61	0.001608	73.85084	0.002948
30	63	0.001655	64.26675	0.002857
31	65	0.001702	70.92540	0.002881
32	67	0.001748	53.67961	0.002863

Table E.5 The value of R(q), q and Intensity factor ($S(q,o)-S_x(q)$) of 30%w TMPC/PS blends at 275°C.

no.diode	degree	q	$S(q,o)-S_x(q)$	R(q)
6	15	0.000413	110.75623	0.000581
7	17	0.000468	65.12865	0.000641
8	19	0.000523	103.45272	0.000927
9	21	0.000577	110.48560	0.000952
10	23	0.000631	82.35525	0.001261
11	25	0.000686	81.35353	0.001414
12	27	0.000739	83.93849	0.001555
13	29	0.000793	63.97612	0.001789
14	31	0.000846	65.08814	0.002029
15	33	0.000900	67.45406	0.002093
16	35	0.000952	54.24475	0.002528
17	37	0.001005	50.71051	0.002832
18	39	0.001057	47.43943	0.003029
19	41	0.001109	37.75237	0.003351
20	43	0.001161	41.25547	0.003370
21	45	0.001212	46.36807	0.003448
22	47	0.001263	34.36029	0.004022
23	49	0.001314	16.34329	0.005709
24	51	0.001364	34.30647	0.004235
25	53	0.001413	34.51250	0.004637
26	55	0.001463	31.23650	0.004624
27	57	0.001511	31.07337	0.004977
28	59	0.001560	30.25248	0.004769
29	61	0.001608	32.30823	0.005044
30	63	0.001655	31.40641	0.004630
31	65	0.001702	34.30089	0.004656
32	67	0.001748	22.79050	0.005173

Table E.6 The value of R(q), q and Intensity factor ($S(q,o)-S_x(q)$) of 50%w TMPC/PS blends (Prepared by solvent casting) at 237°C.

no.diode	degree	q	$S(q,o)-S_x(q)$	R(q)
5	13	0.000359	361.37707	0.000127
6	15	0.000414	321.76048	0.000174
7	17	0.000469	280.59152	0.000236
8	19	0.000524	253.71915	0.000320
9	21	0.000578	197.87751	0.000426
10	23	0.000633	172.18310	0.000535
11	25	0.000687	151.35039	0.000570
12	27	0.000741	133.83084	0.000669
13	29	0.000795	125.35598	0.000674
14	31	0.000848	113.01089	0.000745
15	33	0.000902	108.77122	0.000798
16	35	0.000955	86.79132	0.000931
17	37	0.001007	89.59037	0.000968
18	39	0.001060	74.61734	0.000995
19	41	0.001112	63.79223	0.001094
20	43	0.001163	60.45288	0.001007
21	45	0.001215	56.46016	0.001169
22	47	0.001266	50.65665	0.001154
23	49	0.001316	44.19181	0.001257
24	51	0.001367	42.59994	0.001332
25	53	0.001416	46.68651	0.001372
26	55	0.001466	37.77008	0.001541
27	57	0.001515	39.12626	0.001542
28	59	0.001563	33.39690	0.001553
29	61	0.001611	36.56671	0.001423
30	63	0.001659	31.82949	0.001601
31	65	0.001706	36.62100	0.001429
32	67	0.001752	24.22082	0.001307

Table E.7 The value of R(q), q and Intensity factor ($S(q,o)-S_x(q)$) of 50%w TMPC/PS blends (Prepared by solvent casting) at 239°C.

no.diode	degree	q	$S(q,o)-S_x(q)$	R(q)
5	13	0.000359	247.95323	0.000525
6	15	0.000414	250.57375	0.000636
7	17	0.000469	171.38935	0.000838
8	19	0.000524	226.06256	0.000773
9	21	0.000578	205.50535	0.000895
10	23	0.000587	158.74204	0.001025
11	25	0.000637	151.33214	0.001044
12	27	0.000687	140.84343	0.001089
13	29	0.000737	112.53028	0.001297
14	31	0.000786	98.14732	0.001408
15	33	0.000836	105.17652	0.001438
16	35	0.000885	90.05332	0.001492
17	37	0.000934	76.44327	0.001615
18	39	0.000982	63.05100	0.001863
19	41	0.001031	47.59651	0.002134
20	43	0.001079	48.21212	0.002151
21	45	0.001215	56.77020	0.001876
22	47	0.001266	37.07981	0.002369
23	49	0.001316	12.78555	0.004153
24	51	0.001367	33.64420	0.002443
25	53	0.001416	33.01902	0.002924
26	55	0.001466	28.87658	0.002860
27	57	0.001515	28.01618	0.003152
28	59	0.001563	26.66800	0.002806
29	61	0.001611	31.47054	0.002674
30	63	0.001659	29.78260	0.002385
31	65	0.001706	33.36621	0.002286
32	67	0.001752	17.17447	0.002977

Table E.8 The value of R(q), q and Intensity factor ($S(q,o)-S_x(q)$) of 50%w TMPC/PS blends (Prepared by solvent casting) at 242°C.

no.diode	degree	q	$S(q,o)-S_x(q)$	R(q)
5	13	0.000359	319.85959	0.000904
6	15	0.000414	297.56348	0.001021
7	17	0.000469	252.77833	0.001177
8	19	0.000524	219.96203	0.001302
9	21	0.000578	191.46129	0.001386
10	23	0.000587	167.83599	0.001556
11	25	0.000637	148.05101	0.001568
12	27	0.000687	133.61481	0.001744
13	29	0.000737	110.85999	0.002033
14	31	0.000786	99.26539	0.002108
15	33	0.000836	96.57815	0.002118
16	35	0.000885	73.68769	0.002532
17	37	0.000934	68.20949	0.002635
18	39	0.000982	54.28013	0.003121
19	41	0.001031	48.62646	0.003135
20	43	0.001079	46.05960	0.003159
21	45	0.001215	47.64703	0.003033
22	47	0.001266	37.33238	0.003444
23	49	0.001316	34.48624	0.003667
24	51	0.001367	34.09663	0.003622
25	53	0.001416	35.62440	0.004079
26	55	0.001466	29.20801	0.003833
27	57	0.001515	30.43781	0.004168
28	59	0.001563	26.34394	0.004180
29	61	0.001611	29.77957	0.004178
30	63	0.001659	26.44157	0.003942
31	65	0.001706	29.43716	0.003666
32	67	0.001752	18.76556	0.004354

Table E.9 The value of R(q), q and Intensity factor ($S(q,o)-S_x(q)$) of 50%w TMPC/PS blends (Prepared by solvent casting) at 245°C.

no.diode	degree	q	$S(q,o)-S_x(q)$	R(q)
5	13	0.000359	157.57145	0.001433
6	15	0.000414	183.64494	0.001441
7	17	0.000469	119.01453	0.001936
8	19	0.000524	131.67440	0.002025
9	21	0.000578	119.70989	0.002074
10	23	0.000633	85.96769	0.002575
11	25	0.000687	77.91681	0.002767
12	27	0.000741	83.02492	0.002779
13	29	0.000795	46.95030	0.003367
14	31	0.000848	53.41088	0.003169
15	33	0.000902	52.04104	0.003486
16	35	0.000955	39.13818	0.003736
17	37	0.001007	35.93787	0.004163
18	39	0.001060	35.48015	0.003961
19	41	0.001112	15.69470	0.005879
20	43	0.001163	22.30443	0.005267
21	45	0.001215	37.97675	0.003814
22	47	0.001266	20.62833	0.005111
24	51	0.001367	18.25861	0.005336
25	53	0.001416	19.69275	0.005129
26	55	0.001466	16.82364	0.005467
27	57	0.001515	16.90986	0.005647
28	59	0.001563	18.85835	0.004223
29	61	0.001611	23.82790	0.004218
30	63	0.001659	24.46563	0.003776
31	65	0.001706	31.76794	0.003303
32	67	0.001752	12.75008	0.004618

Table E.10 The value of R(q), q and Intensity factor ($S(q,o)-S_x(q)$) of 50%w TMPC/PS blends (Prepared by solvent casting) at 247°C.

no.diode	degree	q	$S(q,o)-S_x(q)$	R(q)
5	13	0.000359	263.86360	0.001948
6	15	0.000414	234.70388	0.002246
7	17	0.000469	185.36378	0.002574
8	19	0.000524	219.34701	0.002537
9	21	0.000578	167.05209	0.002953
10	23	0.000587	138.56976	0.003367
11	25	0.000637	132.09940	0.003438
12	27	0.000687	120.78893	0.003487
13	29	0.000737	90.70175	0.004373
14	31	0.000786	96.03083	0.004166
15	33	0.000836	83.99639	0.004743
16	35	0.000885	66.71644	0.005214
17	37	0.000934	60.10010	0.005660
18	39	0.000982	50.44272	0.005916
19	41	0.001031	40.99464	0.006357
20	43	0.001079	37.68387	0.006967
21	45	0.001215	46.84790	0.006436
22	47	0.001266	32.51847	0.007622
23	49	0.001316	7.88185	0.014968
24	51	0.001367	27.83059	0.008503
25	53	0.001416	30.10957	0.008276
26	55	0.001466	24.91761	0.008644
27	57	0.001515	25.28070	0.009205
28	59	0.001563	23.60484	0.008017
29	61	0.001611	26.19775	0.008612
30	63	0.001659	28.43680	0.006809
31	65	0.001706	32.37654	0.006553
32	67	0.001752	18.80890	0.007905

Table E.11 The value of R(q), q and Intensity factor ($S(q,o)-S_x(q)$) of 50%w TMPC/PS blends (Prepared by melt mixed) at 249°C.

no.diode	degree	q	$S(q,o)-S_x(q)$	R(q)
5	13	0.000359	4241.74087	0.002800
6	15	0.000414	3855.95183	0.002695
7	17	0.000469	2582.64027	0.003508
8	19	0.000524	2366.45775	0.003160
9	21	0.000578	1722.51212	0.003802
10	23	0.000633	1415.17018	0.004201
11	25	0.000687	1121.69715	0.004555
12	27	0.000741	932.34054	0.005096
13	29	0.000795	744.16092	0.005637
14	31	0.000848	695.41820	0.005351
15	33	0.000902	620.27697	0.005699
16	35	0.000955	549.83557	0.005586
17	37	0.001007	496.88741	0.005777
18	39	0.001060	427.79468	0.006165
19	41	0.001112	360.26998	0.007584
20	43	0.001163	342.74166	0.006966
21	45	0.001215	299.11300	0.007641
22	47	0.001266	270.25926	0.008008
23	49	0.001316	265.92054	0.007427
24	51	0.001367	266.74989	0.007140
25	53	0.001416	251.76074	0.008036
26	55	0.001466	233.81755	0.006900
27	57	0.001515	216.57357	0.008880
28	59	0.001563	189.58604	0.008924
29	61	0.001611	192.93208	0.007795
30	63	0.001659	170.54226	0.008519
31	65	0.001706	146.70222	0.006337
32	67	0.001752	143.51937	0.008058

Table E.12 The value of R(q), q and Intensity factor ($S(q,o)-S_x(q)$) of 50%w TMPC/PS blends (Prepared by melt mixed) at 250°C.

no.diode	degree	q	$S(q,o)-S_x(q)$	R(q)
5	13	0.000359	686.38695	0.004114
6	15	0.000414	611.68980	0.003985
7	17	0.000469	399.87187	0.005040
8	19	0.000524	385.47879	0.005210
9	21	0.000578	346.20672	0.005204
10	23	0.000633	254.88051	0.006039
11	25	0.000687	218.84261	0.006414
12	27	0.000741	185.82059	0.007267
13	29	0.000795	154.53599	0.007953
14	31	0.000848	142.20599	0.008602
15	33	0.000902	142.58911	0.008382
16	35	0.000955	132.82690	0.008112
17	37	0.001007	115.68945	0.009316
18	39	0.001060	108.72736	0.008658
19	41	0.001112	98.01743	0.009080
20	43	0.001163	85.82952	0.010203
21	45	0.001215	81.75844	0.010201
22	47	0.001266	76.46431	0.010264
23	49	0.001316	60.51354	0.012112
24	51	0.001367	71.69245	0.010436
25	53	0.001416	70.76060	0.010855
26	55	0.001466	60.90554	0.011118
27	57	0.001515	66.02013	0.010453
28	59	0.001563	61.02103	0.010024
29	61	0.001611	61.01217	0.009991
30	63	0.001659	55.85545	0.009963
31	65	0.001706	53.35585	0.007635
32	67	0.001752	46.69909	0.009919

Table E.13 The value of R(q), q and Intensity factor ($S(q,o)-S_x(q)$) of 50%w TMPC/PS blends (Prepared by melt mixed) at 251°C.

no.diode	degree	q	$S(q,o)-S_x(q)$	R(q)
5	13	0.000359	716.62839	0.006771
6	15	0.000414	721.05003	0.006557
7	17	0.000469	962.83246	0.005151
8	19	0.000524	952.75345	0.005300
9	21	0.000578	650.12640	0.006360
10	23	0.000633	629.47471	0.006558
11	25	0.000687	535.10135	0.007144
12	27	0.000741	482.28439	0.008016
13	29	0.000795	442.49035	0.007013
14	31	0.000848	367.69828	0.007992
15	33	0.000902	342.62345	0.007507
16	35	0.000955	250.66508	0.009455
17	37	0.001007	259.79040	0.008856
18	39	0.001060	205.30696	0.009948
19	41	0.001112	192.25007	0.010513
20	43	0.001163	189.99883	0.009856
21	45	0.001215	189.59690	0.009290
22	47	0.001266	167.96989	0.009518
23	49	0.001316	155.11769	0.010633
24	51	0.001367	155.42689	0.010408
25	53	0.001416	161.11675	0.010109
26	55	0.001466	138.85886	0.010027
27	57	0.001515	140.68218	0.010152
28	59	0.001563	129.35678	0.009214
29	61	0.001611	111.00007	0.009649
30	63	0.001659	121.56898	0.008421
31	65	0.001706	81.83835	0.008028
32	67	0.001752	87.87037	0.011524

Table E.14 The value of R(q), q and Intensity factor ($S(q,o)-S_x(q)$) of 50%w TMPC/PS blends (Prepared by melt mixed) at 252°C.

no.diode	degree	q	$S(q,o)-S_x(q)$	R(q)
5	13	0.000359	390.14035	0.007790
6	15	0.000414	405.40842	0.008067
7	17	0.000469	286.35254	0.009364
8	19	0.000524	295.92077	0.010061
9	21	0.000578	334.68384	0.008458
10	23	0.000633	248.70216	0.010286
11	25	0.000687	294.41850	0.008959
12	27	0.000741	210.12000	0.011476
13	29	0.000795	225.53213	0.010007
14	31	0.000848	172.42311	0.012918
15	33	0.000902	204.77615	0.011239
16	35	0.000955	211.42681	0.010862
17	37	0.001007	189.13751	0.010060
18	39	0.001060	184.10107	0.010653
19	41	0.001112	196.21103	0.008702
20	43	0.001163	170.35575	0.009676
21	45	0.001215	197.85391	0.007517
22	47	0.001266	158.24732	0.008578
23	49	0.001316	135.37130	0.010355
24	51	0.001367	131.45595	0.011076
25	53	0.001416	121.10988	0.012000
26	55	0.001466	120.11811	0.010421
27	57	0.001515	110.93864	0.010637
28	59	0.001563	108.74126	0.010066
29	61	0.001611	90.70582	0.009815
30	63	0.001659	98.63283	0.009975
31	65	0.001706	69.86870	0.008347
32	67	0.001752	83.52070	0.008990

Table E.15 The value of R(q), q and Intensity factor ($S(q,o)-S_x(q)$) of 50%w TMPC/PS blends (Prepared by melt mixed) at 253°C.

no.diode	degree	q	$S(q,o)-S_x(q)$	R(q)
5	13	0.000359	545.26255	0.008550
6	15	0.000414	317.88298	0.011055
7	17	0.000469	374.62217	0.010267
8	19	0.000524	325.63248	0.010966
9	21	0.000578	359.60459	0.010753
10	23	0.000633	308.38071	0.011187
11	25	0.000687	266.51454	0.012267
12	27	0.000741	247.78624	0.012712
13	29	0.000795	219.47240	0.013630
14	31	0.000848	213.04763	0.013876
15	33	0.000902	216.38704	0.013110
16	35	0.000955	195.66504	0.013750
17	37	0.001007	169.44752	0.014994
18	39	0.001060	172.70581	0.013809
19	41	0.001112	154.70323	0.014080
20	43	0.001163	145.91575	0.014806
21	45	0.001215	151.59511	0.014144
22	47	0.001266	130.01273	0.015498
23	49	0.001316	118.33455	0.015043
24	51	0.001367	131.04547	0.014050
25	53	0.001416	117.50152	0.016442
26	55	0.001466	115.52752	0.014941
27	57	0.001515	104.71436	0.016292
28	59	0.001563	98.19706	0.014786
29	61	0.001611	91.94847	0.013745
30	63	0.001659	88.32083	0.015366
31	65	0.001706	67.40738	0.010976
32	67	0.001752	68.64394	0.015229

Table E.16 The value of R(q), q and Intensity factor ($S(q,o)-S_x(q)$) of 70%w TMPC/PS blends at 293°C.

no.diode	degree	q	$S(q,o)-S_x(q)$	R(q)
10	23	0.000587	69.28861	0.000280
11	25	0.000637	46.51094	0.000485
12	27	0.000687	38.11472	0.000599
14	31	0.000786	34.85913	0.000645
15	33	0.000836	34.27015	0.000698
16	35	0.000885	37.01655	0.000642
17	37	0.000934	31.29925	0.000771
18	39	0.000982	35.74883	0.000690
20	43	0.001079	42.03107	0.000607

Table E.17 The value of R(q), q and Intensity factor ($S(q,o)-S_x(q)$) of 70%w TMPC/PS blends at 295°C.

no.diode	degree	q	$S(q,o)-S_x(q)$	R(q)
10	23	0.000634	47.76948	0.000496
11	25	0.000689	13.14516	0.001236
12	27	0.000743	39.24250	0.000789
14	31	0.000850	16.22526	0.001146
15	33	0.000904	23.14469	0.001015
16	35	0.000957	16.55720	0.001104
17	37	0.001010	25.02070	0.000973
18	39	0.001062	30.25180	0.000880
20	43	0.001166	36.79599	0.000691

Table E.18 The value of R(q), q and Intensity factor ($S(q,o)-S_x(q)$) of 70%w TMPC/PS blends at 297°C.

no.diode	degree	q	$S(q,o)-S_x(q)$	R(q)
10	23	0.000587	33.27114	0.000337
11	25	0.000637	36.68648	0.000578
12	27	0.000687	75.73247	0.000505
14	31	0.000786	26.78784	0.000857
15	33	0.000836	23.78752	0.000942
16	35	0.000885	27.94903	0.000833
17	37	0.000934	24.73206	0.000982
18	39	0.000982	49.83485	0.000753
20	43	0.001079	37.05657	0.000791

Table E.19 The value of R(q), q and Intensity factor ($S(q,o)-S_x(q)$) of 70%w TMPC/PS blends at 299°C.

no.diode	degree	q	$S(q,o)-S_x(q)$	R(q)
10	23	0.000587	2.84313	0.000932
11	25	0.000637	24.54178	0.000643
12	27	0.000687	63.81551	0.000498
14	31	0.000786	18.88326	0.000879
15	33	0.000836	14.96566	0.001015
16	35	0.000885	11.20411	0.001098
17	37	0.000934	13.95911	0.001121
18	39	0.000982	28.26592	0.000908
20	43	0.001079	14.94203	0.001093

Table E.20 The value of R(q), q and Intensity factor ($S(q,o)-S_x(q)$) of 70%w TMPC/PS blends at 301°C.

no.diode	degree	q	$S(q,o)-S_x(q)$	R(q)
10	23	0.000587	8.02133	0.001921
11	25	0.000637	16.33331	0.001714
12	27	0.000687	29.11020	0.001521
14	31	0.000786	22.20063	0.001696
15	33	0.000836	19.73771	0.001834
16	35	0.000885	15.68774	0.001956
17	37	0.000934	29.95615	0.001599
18	39	0.000982	42.09509	0.001392
20	43	0.001079	32.63716	0.001544

Table E.21 The value of R(q), q and Intensity factor ($S(q,o)-S_x(q)$) of 20%w SMA/PMMA blends at 210°C.

no.diode	degree	q	$S(q,o)-S_x(q)$	R(q)
1	5	0.001300	45.99350	0.000086
2	7	0.001820	29.05237	0.000251
3	9	0.002340	7.26596	0.000433
4	11	0.002860	13.16945	0.000410
5	13	0.003380	7.05545	0.000641
6	15	0.003900	7.21383	0.000674
7	17	0.004410	3.50889	0.001039
8	19	0.004930	5.15930	0.000896
9	21	0.005440	5.07081	0.000899
10	23	0.005950	4.03497	0.001156
11	25	0.006460	3.55978	0.001232
12	27	0.006970	3.64152	0.001241
13	29	0.007480	2.85994	0.001369
14	31	0.007980	3.42055	0.001317
15	33	0.008480	3.72214	0.001245
16	35	0.008980	2.99427	0.001436
17	37	0.009480	2.67621	0.001362
18	39	0.009970	2.85679	0.001464
19	41	0.001050	1.71755	0.001959
20	43	0.001090	2.39121	0.001573
21	45	0.001140	2.69797	0.001412
22	47	0.001190	2.23067	0.001492
23	49	0.001240	1.02665	0.002502
24	51	0.001290	1.71361	0.002027
25	53	0.001330	1.65467	0.001659
26	55	0.001380	1.78836	0.001598
27	57	0.001430	1.74543	0.001536
28	59	0.001470	1.65781	0.001735
29	61	0.001520	1.53757	0.001477
30	63	0.001560	2.18475	0.001395
31	65	0.001600	1.75207	0.001036
32	67	0.001650	1.56674	0.001471

Table E.22 The value of R(q), q and Intensity factor ($S(q,o)-S_x(q)$) of 30%w SMA/PMMA blends at 210°C.

no.diode	degree	q	$S(q,o)-S_x(q)$	R(q)
1	5	0.001310	77.19232	0.000011
2	7	0.001830	47.61748	0.000017
3	9	0.002360	18.36782	0.000064
4	11	0.002880	16.38719	0.000261
5	13	0.003400	7.18000	0.000556
6	15	0.003920	8.95310	0.000511
7	17	0.004440	5.14693	0.000829
8	19	0.004950	5.70704	0.000831
9	21	0.005470	4.58871	0.001040
10	23	0.005990	3.78634	0.001160
11	25	0.006500	3.37097	0.001220
12	27	0.007010	2.61614	0.001520
13	29	0.007520	2.60909	0.001450
14	31	0.008020	2.62479	0.001520
15	33	0.008530	2.56357	0.001530
16	35	0.009030	2.58287	0.001560
17	37	0.009530	2.11383	0.001640
18	39	0.010000	1.74787	0.001920
19	41	0.010500	1.04550	0.002320
20	43	0.011002	1.40804	0.002010
21	45	0.011500	1.79912	0.001770
22	47	0.012000	1.46024	0.001920
23	49	0.012400	0.56950	0.002740
24	51	0.012900	0.89333	0.002450
25	53	0.013395	0.96676	0.002290
26	55	0.013900	1.39864	0.001850
27	57	0.014300	1.30513	0.001780
28	59	0.014783	1.00160	0.002190
29	61	0.015200	1.17786	0.001760
30	63	0.015700	1.49691	0.001730
31	65	0.016100	1.43807	0.001150
32	67	0.016569	1.36029	0.001650

Table E.23 The value of R(q), q and Intensity factor ($S(q,o)-S_x(q)$) of 40%w SMA/PMMA blends at 210°C.

no.diode	degree	q	$S(q,o)-S_x(q)$	R(q)
1	5	0.001320	64.61199	0.000859
2	7	0.001840	29.33848	0.000437
3	9	0.002370	8.20218	0.009290
4	11	0.002890	10.86015	0.000824
5	13	0.003420	8.37457	0.000598
6	15	0.003940	5.65308	0.001439
7	17	0.004460	2.96181	0.001755
8	19	0.004980	4.93869	0.001477
9	21	0.005500	4.75787	0.001523
10	23	0.006010	3.65173	0.001806
11	25	0.006530	3.77953	0.001755
12	27	0.007040	3.38177	0.002034
13	29	0.007550	2.74368	0.002308
14	31	0.008060	2.80639	0.002506
15	33	0.008570	3.26971	0.002130
16	35	0.009070	2.65090	0.002527
17	37	0.009570	2.49004	0.002320
18	39	0.010100	2.54721	0.002336
19	41	0.001060	1.29279	0.003451
20	43	0.011100	1.67146	0.003000
21	45	0.001150	2.73464	0.002105
22	47	0.001200	1.84117	0.002820
23	49	0.001250	0.11500	0.002493
24	51	0.001300	1.42091	0.003116
25	53	0.001350	1.64592	0.002612
26	55	0.001390	1.69283	0.002686
27	57	0.001440	1.63101	0.002490
28	59	0.001490	1.67247	0.002301
29	61	0.001530	1.50020	0.002866
30	63	0.015800	2.07965	0.002238
31	65	0.016200	2.35679	0.001761
32	67	0.016700	1.43047	0.002911

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