

REFERENCES

- [1] M., J., R., Loadman, Analysis of Rubber and Rubber-like Polymers. 4th ed. Kluwer Academic Publishers: UK, 1998:
- [2] B., Adhikari, D., De, and S., Maiti. Reclamation and recycling of waste rubber. Progress In Polymer Science. 25, (n.d): 909-948.
- [3] B., D., LAGRONE. Reclaiming of elastomer, Conservation&Recycling, 9(4), pp. 359-361, 1986
- [4] Sadhán K. De., Avraam I.I., and Klementina K. Rubber recycling. Boca Raton: CRC Press, 2005.
- [5] Yab, US Patent 6,047,911
- [6] Mouri, et al., US Patent 6,133,413.
- [7] D., De., A, Das., D., De., B. Dey., S., C., Debnath., and B., C., Roy. Reclaiming of Ground Rubber Tire (GRT) by a Novel Reclaiming Agent. European Polymer Journal. 42(2005): 917-927.
- [8] G.K., Jana, et al., A Novel Devulcanization Technology for Vulcanized Natural Rubber. Journal of Applied Polymer Science. 99(2006): 2831-2840.
- [9] Punsunan Chainrungsang, Deproteinization of NR by the coupling action of protease and microwave energy, 2000, Biotechnology, Master science, Chulalongkorn University
- [10] Anton., Microwave Technology.[online]. Available from: <http://www.anton-paar.com>[2007, March 3]
- [11] Tyler, et al., US Patent 4,459,450.
- [12] Novotny, et al., US Patent 4,104,205.
- [13] R., Sopakyang, Application of Microwave Energy for Rubber Heating, E-NETT 3rd conference, Chonburi, 2005.
- [14] T., Klep, The use of Thermogravimetry in the Study of Rubber Devulcanization. Journal of thermal analysis and calorimetry. Journal of Thermal Analysis and Calorimetry 60(2000): 271-277.

- [15] D., Ing., et al., "Recycle of Ground Tire Rubber and Polyolefin Wastes by Producing Thermoplastic Elastomers". (Master degree, Science, Technical University of Kaiserslautern, 2005).
- [16] P., Nevatia., et al., Thermoplastic Elastomers from Reclaimed Rubber and Waste Plastic. Journal of Applied Polymer Science. 83(2001): 2035-2042.
- [17] P., Rajalingam., et al., Ground Rubber Tire/Thermoplastic Composites: Effect of Different Ground Rubber Tires. Rubber Chem Technol. 65(1992): 908
- [18] G.P.,Goncharuk, et al., Mechanical properties of modified thermoplastic elastomers based on low-density polyethylene and rubber powder. Int. polym. sci. technol. 26(1999).
- [19] Fred W. Barlow. Rubber Compounding : principles, materials, and techniques. 2nd ed. New York: Marcel Dekker, 1993.
- [20] Clarke et al., Effect of Microwave Power and Filler Content on Microwave Heating and Mechanical Properties of Carbon Black Filled High Density Polyethylene[online]. Availablefrom:www.sump4.com/publications/paper048.doc [2006, December 10]
- [21] D.W., Kim and K.S., Kim, Electron Beam Irradiation of Noncrosslinked LDPE-EVA Foam. Journal of Cellular Plastics. 38(2002):471-496.
- [22] M.N., Bureau et al., Mechanical-morphology relationship of PS foams. Journal of Cellular Plastics. 39(2003): 353-367.
- [23] K., Agarwal, et al., SEM study on the influence of temperature on tear strength and failure mechanism of NR vulcanizates. Polymer Testing. 24(2005): 781-789.
- [24] Y., Li., Y. Zhang., and Y., Zhang., Morphology and mechanical properties of HDPE/SRP/elastomer composites: effect of elastomer polarity. 23(2004): 83-90.
- [25] S., Thomas, B.,R., Gupta, and S.,K., De., Tear and wear of thermoplastic elastomers from blends of poly(propylene) and ethylene vinylacetate rubber: Journal of materials science. 22(1987): 3209-3216.

CURRICULUM VITAE

Ms. Amarporn Sampantararat was born in Trang, Thailand, on October 2, 1983. She received a Bachelor degree of Science in Materials Science, Chulalongkorn University in 2005. Then, she continued her post-graduate study in Applied Polymer Science and Textile Technology Master Programme at the Department of Materials Science, Faculty of Science, Chulalongkorn University in 2005, and ultimately completed the degree of Master of Science in May 2007.