REFERENCES

- "Impact modifiers aid durability of products", <u>Modern Plastics Encyclopedia</u>, mid-November 1994 Issue Vol. 71, No. 12, pp A38-44.
- "The outlook for International plastics 1993" published by DRI/Mc Graw-Hill, Div of McGraw-Hill, Inc, MA., Modern Plastics Encyclepedia, mid-November 1994 Issue Vol. 71, No. 12, pp A22-23.
- Eugene R.Moore, "Styrene Polymers", Prepared by the Plastics Technical Staff of The Dow Chemical Co. Midland, Michigan, <u>Encyclopedia of Polymer Science</u> and <u>Engineering</u>, Volume 16, 1989.
- 4. La Mantia, F. P., Nocilla, M. A. and Acierno, D. "Effect of the flow field on the mechanical degradation of molten polystyrene". in site of F.A. Jamil and S.D.A. Shubber, Some effects of recycling high impact polystyrene, plastics and rubber processing and applications. Vol 9, No. 3, pp 187-190, 1988.
- Murthy, Y. R. and Raghavendra, N. M. "Studies on the degradation of polystyrene", Pop. Plast., 26(10) (1981), pp 14-16. As cited by F. A. Jamil and S. D. A. Shubber, Some effects of recycling high impact polystyrene, Plastics and Rubber Processing and Applications. Vol 9, No. 3, pp 187-190, 1988.
- Inaba, A. and Inoue, H. "The effect of operating condition of PS and analysis with a model of the degradation process", Kagaku Kogaku Ronbunshu J., 7(6) (1981), pp 602-9. As cited by F. A. Jamil and S. D. A. Shubber, Some effects of recycling high impact polystyrene, Plastics and Rubber Processing and Applications. Vol 9, No. 3, pp 187-190, 1988.

- F. A. Jamil and S. D. A. Shubber, "Some effects of recycling high impact polystyrene",
 Plastics and Rubber Processing and Applications. Vol 9, No. 3, pp 187-190,
 1988.
- S. Fellahi, S. Boukabbal, and M. M' Hala, "Additives as Properties Improvers for Recycled Mixed Plastics", <u>ANTEC 91</u>.
- 9. D. J. Seitz, "Impact Modification of Recycled Resins "PS" Polystyrene", ANTEC 90.
- N. R. Legge, G. Holden, H. E. Schroeder, "Thermoplastic Elastomers based on polystyrene-polydiene block copolymer", <u>Thermoplastic Elastomers</u>, Hanser Publishers, pp 48-53, 1987.
- Ho Yin (Henry) Tang and Chrales E. Chaffey, "Mechanical and flow properties of recycled filled polystyrene", <u>Plastics and Rubber Processing and Applications</u>
 Vol. 12, No. 1, pp 53-61, 1989.
- 12. Springer, P. W, Brodkey, R. S. & Lynn, R. E., "Effects of extrusion on the molecular and rheological properties of general purpose polystyrene". Polym. Eng. Sci., 15(8) (1975) pp 588-93. As cited by Ho Yin (Henry) Tang and Chrales E. Chaffey, Mechanical and flow properties of recycled filled polystyrene, Plastics and Rubber Processing and Applications Vol. 12, No. 1, pp 53-61, 1989.
- 13. Hornsby, P. R. and Sothern, G. R., "Polymer degradation during twin-screw extrusion compounding". Plast. Rubber Proc. Applic. 4(2) (1984) pp 165-71. As cited by Ho Yin (Henry) Tang and Chrales E. Chaffey, Mechanical and flow properties of recycled filled polystyrene, Plastics and Rubber Processing and Applications Vol. 12, No.1, pp 53-61, 1989.
- 14. La Mantia, F. P., Nocilla, M.A. & Acierno, D., "Effect of the flow field on the mechanical degradation of molten polypropylene". Polym. Degradation and Stability, 13(4)(1985), pp 305-11. As cited by Ho Yin (Henry) Tang and

- Chrales E. Chaffey, Mechanical and flow properties of recycled filled polystyrene, Plastics and Rubber processing and Applications Vol. 12, No. 1, pp 53-61, 1989.
- John A. Manson and Leslic H. Sperling, <u>Polymer blends and composites</u>, Plenum Press, New York, pp 77-100, 1976.
- Haward, R.N., and Mann, J (1965) Proc. R. Soc. 282A, 120 As cited by John A.
 Manson and Leslic H. Sperling, <u>Polymer blends and composites</u>, Plenum
 Press, New York, pp 77-100, 1976.
- Bucknall C.B. (1967 a), Br. Plastics 40 (11). As cited by John A. Manson and Leslic H. Sperling, Polymer blends and composites, Plenum Press, New York. pp 77-100, 1976.
- Norman E. Dowling, <u>Mechanical Behavior of Materials Engineering Methods for Deformation</u>, Fracture and Fatigue, Printice-Hall International, Inc. Engle wood cliff, New Jersy, 1985.
- Salim Yamini and Robert J. Young, "Crack Propagation in and Fractography of Epoxy Resin, "Journal of Material Science 14: 1609-1618, 1979.
- Wistold Brostow and Roger D. Corneliussen, <u>Failure of Plastics</u>, Macmillan Publisher Company, Inc., New York, 1986.
- 21. Faul V. Engelmann, Michael D. Monfore, Evic W. Dawkins, Teffrey A. McInerney; "Recycling: Extrusion-Compression of Commingled Resin Blends", Plastics Engineering, February 1992.
- 22. L. Starke, Z. Funke and N. Kolzsch, Mersebury; "Material Recycling of Mixed Plastics" Translated from Kunststoffe german plastics, Vol 82, Jan 1992.
- Plastics, Rubber and Composites Processing and Applications, "Overview of plastics recycling in Europe", Vol 19, No. 4, pp 197-204, 1993.

- 24. P. Fordyce, K. L, Derries and B. M. Fanconi, "Chain Scission and Mechanical Degradation of Polystyrene", <u>Polymer Engineering and Science</u>, Vol 24, No.6, pp 421-427, April 1984.
- 25. T. J. Nosker, R. W. Renfree, and D. R. Morrow, K. E. Van Ness and J. J. Donaghy, "Properties and Morphologies of Recycled Polystyrene/ Curbside Tailings Materials", pp 2150-2153, <u>ANTEC 1991</u>.
- 26. "Property (impact) modifiers", Modern Plastics Encyclopedia, Mid December 1992 Issue vol 69, No 13.
- 27. Vishu Shah, Physical Properties, <u>Handbook of Plastics Testing Technology</u>. A wiley-interscience publication.
- 28. Colorants By John Copp, Technical Service, Modern Plastics Encyclopedia, 1977.
- D. C. Miles and J. H. Briston, <u>Polymer Technology</u>, Chemical Publishing Co., Inc. Newyork, 1979.
- D. G. Cook, A. Rudin and A. Plumtree, "Fracture Mechanics Parameters for Polystyrene under High Speed Impact", <u>Polymer Engineering and Science</u>, May 1990, Vol 30, No. 10.
- 31. "Plastics Recycling as a future business opportunity", Recyclingplas V Conference, May 1990, Washington D.C., Plastics Institute of America, Inc.
- 32. "Recycling" Extrusion-Compression of Commingled Resin Blends, <u>Plastics</u>

 Engineering, February 1992, pp 27-31.
- 33. ASTM Standard Destination D 256
- 34. ASTM Standard Destination D 638
- 35. ASTM Standard Destination D 792
- 36. ASTM Standard Destination D 1238
- 37. ASTM Standard Destination D 1528
- 38. ASTM Standard Destination D 2240

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