

Investigation on *In-Situ* Chain End Modification of Polyesters by Succinic and Phthalic Anhydrides

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Powder Coatings are the most environmental friendly system for metal, automotive and wooden coating systems. The advantage of system comes from the absence of volatile organic compounds. A powder coating formulation contains a cross linkable resin, cross linker (hardener), flow modifiers and degassing agents. The curing reaction which creates the cross linked network carries out between resin end groups and hardener at appropriate temperatures. In this study, chain end modification of polyesters by succinic and phthalic anhydrides and their effects on polymer system are investigated.

Biography:

Aysenur Ozdemir is a PhD candidate in Chemistry Department at Bogazici University, Turkey and works as a part-time chemist in R&D Department at Pulver Kimya A.S. She holds BS degree (2013) and MSc degree (2015) in chemistry at Bogazici University. Her master project was "Screening of Various Polyethylene Terephthalate Chain Extenders in a Melt Polymerization Set-Up". She is currently studying about powder coating resins. Also, she is interested in solid state polymerization, reactive extrusion, crystallization and curing kinetics of polymer systems.