

# Thermoset Polymers and Composite Engineering

## Thrust Area Reports

<b>Report No.</b>	<b>Title</b>	<b>Date</b>
T-98-01	"Integrated Analysis of Low Profile Unsaturated Polyester Resins Cured at Low Temperatures" by Wen Li and L. James Lee	Autumn 1998
T-98-02	"Mold Filling and Curing Analysis in a Vacuum-Assisted Resin Transfer Molding-SCRIMP" by Xiudong Sun, Shoujie Li, and L. James Lee	Autumn 1998
T-99-01	"Tackification of Textile Fiber Preforms in Resin Transfer Molding" by Chih-Hsin Shih and L. James Lee	Spring 1999
T-99-02	"Simulation and Experimental Analysis of Resin Injection Pultrusion (RIP) Process" by Zhongman Ding, Shoujie Li, L. James Lee, Herbert Engelen, Mac Puckett	Spring 1999
T-99-03	"Reaction Kinetics of Vinylester Resins Cured at Low Temperatures" by Ling Li and L. James Lee	Spring 1999
T-99-04	"Effect of Binder on Directed Fiber Preforming of Liquid Composite Molding" by Ling Li and L. James Lee	Spring 1999
T-99-05	"Low Temperature Cure of Unsaturated Polyester Resins with Thermoplastic Additives – Modification of Polyvinyl Acetate for Better Shrinkage Control" by Wen Li and L. James Lee	Spring 1999
T-99-06	"Fiber Wetting in SMC Formation" by Shoujie Li and L. James Lee	Spring 1999
T-99-07	"Effects of Curing Agents on Kinetic and Rheological Changes of Vinyl Ester Resins Cured at Low Temperatures" by Ling Li, Huan Yang, and L. James Lee	Autumn 1999
T-99-08	"Improvement of Shrinkage Control of Unsaturated Polyester Resin Cured at Low Temperature" by Xia Cao and L. James Lee	Autumn 1999
T-00-01	"Effects of Chelating Agents on Low Temperature Cure of Vinyl Ester And Unsaturated Polyester Resins" by Ling Li and L. James Lee	Spring 2000
T-00-02	"The Pulling Force Mechanism and its Influence on Injection Pultrusion" by Shoujie Li, Zhongman Ding, Ming Li, L. James Lee, and Herbert Engelen	Spring 2000

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T-00-03	"Mold Filling and Curing Analysis of Polyester/Vinylester-Based SCRIMP" by Huan Yang and L. James Lee	Spring 2000
T-00-04	"Development of a Service-Simulating, Accelerated Aging Test Method for Tire Rubber Compounds" by Deng Huang	Spring 2000
T-00-05	"In-Mold Coating Simulation and Processing Studies" by Suneel Vadlamudi	Spring 2000
T-00-06	"Effects of Chelating Agents on Low Temperature Cure of Vinyl Ester And Unsaturated Polyester Resins" by Ling Li and L. James Lee	Autumn 2000
T-00-07	"Experimental Simulation of Friction and Pulling Force in the Pultrusion Die" by Ming Li and L. James Lee	Autumn 2000
T-00-08	"Effects of Resin Chemistry on the Reaction Kinetics of Unsaturated Polyester and Vinylester Resins" by Huan Yang and L. James Lee	Autumn 2000
T-00-09	"Technical Feasibility Study of Novel Solventless Process to Manufacture Pre-Pregs for Electronic Applications" by Ranjeet Hogade and Jose M. Castro	Autumn 2000
T-00-10	"Application of Chemo-Rheology to Establish Process Windows for a New Solventless System to Manufacture Pre-Pregs and Laminates for Electronic Applications" by Lynette Dehnke and Jose M. Castro	Autumn 2000
T-00-11	"Analysis of Void Removal in Liquid Composite Molding using Microflow Models" by Chin-Hsin Shih and L. James Lee	Autumn 2000
T-01-01	"Effects of Resin Chemistry on Redox-Polymerization of Unsaturated Polyester Resins" by Huan Yang and L. James Lee	Spring 2001
T-01-02	"In-Situ Polymerization of PS/Clay and PMMA/Clay Nanocomposites" by Changchun Zeng and L. James Lee	Spring 2001