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(Dominic Collins)

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RareBooksClub. Paperback. Book Condition: New. This item is printed on demand. Paperback. 40 pages. Original publisher: Aberdeen Proving Ground, MD : Army Research Laboratory, 2002 OCLC Number: (OCoLC)227987425 Subject: Glass fibers. Excerpt: . . . bisphenol A (DGEBA) epoxies of varying epoxy equivalent weight (Shell EPON 828, 834, and lOOlF), unsaturated bisphenol A vinyl ester (Sartomer CN-151), and polyesters (Reichold Atlac 387 and DSM Neoxil 954D). The film former resins used are illustrated in Figure 2. The hydrophobic film former resins were stabilized in an emulsified form using a nonionic polyethylene oxide-polypropylene oxide-polyethylene oxide triblock copolymer surfactant (BASF Pluronic F-108). The chemical structure of the surfactant used to emulsify the sizing packages is illustrated in Figure 3. The fibers were dried for a period of 10 hr at a temperature of 130 C prior to shipping to the U. S. Army Research Laboratory (ARL). The tows had an average 1150 mg m tex, 2052 filaments tow, and an average 16. 9 urn filament diameter. f P H2N-y-O-T APS 0 I (b) (4-o-, 9--o4 GPS I 0 I (4 Figure 1. Molecular structures of (a) ME, (b) Al 3, and (c) GPS 2. 2 Matrix Resin For a single pultruded rod composite, -200 g of vinyl ester resin was prepared. In circumstances where fiber wetting was difficult, specifically for the cases of noncompatible fiber-sizing packages, 250-300 g of resin were used. The formulation was composed of Derakane 411-C-50 vinyl ester resin (Dow) and 1. 7 wt Trigonox 239A peroxide initiator. Because the rods are cured at room temperature (20-25 C), 0. 10 wt cobalt napthenate was added as a room temperature catalyst. Cure and crosslinking...

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