



Les Questions Actuelles (99-100)

By -

RareBooksClub. Paperback. Book Condition: New. This item is printed on demand. Paperback. 34 pages. Original publisher: Aberdeen Proving Ground, MD: Army Research Laboratory, 2008 OCLC Number: (OCoLC)320412495 Subject: Composite materials. Excerpt: . . . modulus maximum. The loss modulus peak represents the midpoint of the T, while $\tan \delta$ represents the end of the glass transition region and subsequent beginning of the rubbery region. Because both of these can be independently affected by the formulation, both of these values were recorded for each formulation. 2. 6 Flexural Testing Flexural tests, in accordance with ASTM D 790-92 (22), were performed to determine the modulus of elasticity and flexural strength. The samples had approximate dimensions of 10 80 64 mm and actual dimensions were measured prior to testing. The samples were tested flatwise on a support span, resulting in a support-to-depth ratio of 16. All tests were performed at ambient conditions, which were 22 C and 40 relative humidity. The samples were tested using an Instron at a crosshead speed of 10 mm min. The flexural modulus, elongation at failure, and flexural strength were calculated according to the ASTM standard. 3. Results Discussion 3. 1 Rheology and Viscosity...



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