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Title: Viscoelastic Properties of PUR Foams Impact excitation and dynamic mechanical analysis**Author(s):** Serban, DA (Serban, Dan Andrei); Voiconi, T (Voiconi, Tudor); Linul, E (Linul, Emanoil); Marsavina, L (Marsavina, Liviu); Modler, N (Modler, Niels)**Source:** MATERIALE PLASTICE **Volume:** 52 **Issue:** 4 **Pages:** 537-541 **Published:** DEC 2015**Times Cited in Web of Science Core Collection:** 0**Total Times Cited:** 0**Usage Count (Last 180 days):** 2**Usage Count (Since 2013):** 6**Cited Reference Count:** 32**Abstract:** This work investigates the mechanical properties of polyurethane rigid foams by means of Dynamic Mechanical Analysis (DMA) tests and Impulse Excitation Technique (JET). DMA tests were performed in single cantilever with a sweep in temperature (from -50 degrees C to 100 degrees C) and frequency (from 1 Hz to 100 Hz), not determining glass-transition in the test parameter interval. JET tests were used to determine the dynamic modulus of elasticity, showing good accordance with DMA results**Accession Number:** WOS:000368971900025**Language:** English**Document Type:** Article**Author Keywords:** PUR foams; DMA tests; impulse excitation technique**KeyWords Plus:** SEMICRYSTALLINE THERMOPLASTIC POLYMERS; FRACTURE-TOUGHNESS; POLYURETHANE FOAMS; ENERGY-ABSORPTION; COATINGS; BEHAVIOR**Addresses:** [Serban, Dan Andrei; Voiconi, Tudor; Linul, Emanoil; Marsavina, Liviu] Polytech Univ Timisoara, Dept Strength Mat, 1 M Viteazu Blvd, Timisoara 300222, Romania.

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