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Title: Crack Length Influence on Stress Intensity Factors for the Asymmetric Four-point Bending Testing of a Polyurethane Foam**Author(s):** Apostol, DA (Apostol, Dragos Alexandru); Stuparu, F (Stuparu, Florin); Constantinescu, DM (Constantinescu, Dan Mihai); Marsavina, L (Marsavina, Liviu); Linul, E (Linul, Emanoil)**Source:** MATERIALE PLASTICE **Volume:** 53 **Issue:** 2 **Pages:** 280-282 **Published:** JUN 2016**Times Cited in Web of Science Core Collection:** 1**Total Times Cited:** 1**Usage Count (Last 180 days):** 1**Usage Count (Since 2013):** 1**Cited Reference Count:** 15**Abstract:** Mixed mode four-point testing is performed on polyurethane foams. This paper presents only the results on the stress intensity factors (SIFs) obtained experimentally for a density of 325 kg/m(3), although tests were done for three foam densities. An asymmetric four-point bending setup was used for determining the critical SIFs in Mode I and Mode II, and discussions on the influence of the initial crack length on the SIF values are done. As initial crack length is increased the theoretical predictions give a better comparison to experimentally obtained results.**Accession Number:** WOS:000380629300021**Language:** English**Document Type:** Article**Author Keywords:** mixed-mode; polyurethane foams; asymmetric four-point bending; crack length**KeyWords Plus:** FRACTURE-TOUGHNESS; SPECIMEN**Addresses:** [Apostol, Dragos Alexandru; Stuparu, Florin; Constantinescu, Dan Mihai] Univ Politehn Bucuresti, Dept Strength Mat, 1-7 Polizu Gh, Bucharest 011061, Romania.

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