

BASF Elastollan® 1154D Polyether Type Polyurethane Elastomer

Category : Polymer , Thermoplastic , Elastomer, TPE , Polyurethane, TP , Thermoplastic Polyurethane, Elastomer, Ether Grade

Material Notes:

Recommended for injection molding. Elastollan® 1100 series products are FDA Sec. 177.2600 compliant. Elastollan 1100 series of products are polyether-based thermoplastic polyurethanes. They exhibit excellent low temperature properties, hydrolysis resistance and fungus resistance. These products can be injection and blow molded and extruded. As with all TPU products this grade must be dried prior to processing. Property values below are typical values based on test samples cured 20 hours at 100°C before testing. Information provided by BASF Corporation.

Order this product through the following link:

http://www.lookpolymers.com/polymer_BASF-Elastollan-1154D-Polyether-Type-Polyurethane-Elastomer.php

Physical Properties	Metric	English	Comments
Density	1.16 g/cc	0.0419 lb/in ³	ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	53	53	ASTM D2240
Tensile Strength, Ultimate	40.0 MPa	5800 psi	ASTM D412
Tensile Strength, Yield	20.0 MPa	2900 psi	ASTM D-412
	@Strain 100 %	@Strain 100 %	
Elongation at Break	30.0 MPa	4350 psi	ASTM D-412
	@Strain 300 %	@Strain 300 %	
Tear Strength	180 kN/m	1030 pli	ASTM D624
Taber Abrasion, mg/1000 Cycles	75	75	H-18 wheel; ASTM D-1044.
Tensile Set	70 %	70 %	at break; ASTM D-412

Electrical Properties	Metric	English	Comments
Comparative Tracking Index	>= 600 V	>= 600 V	DIN/IRC 112

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