

BASF Elastollan® 1160D 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-1160D-Polyether-Type-Polyurethane-Elastomer.php

Physical Properties	Metric	English	Comments
Density	1.17 g/cc	0.0423 lb/in ³	ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	60	60	ASTM D2240
Tensile Strength, Ultimate	40.0 MPa	5800 psi	ASTM D412
Tensile Strength, Yield	22.0 MPa	3190 psi	ASTM D-412
	@Strain 100 %	@Strain 100 %	
	33.0 MPa	4790 psi	ASTM D-412
	@Strain 300 %	@Strain 300 %	
Elongation at Break	415 %	415 %	ASTM D412
Tear Strength	205 kN/m	1170 pli	ASTM D624
Taber Abrasion, mg/1000 Cycles	50	50	H-18 wheel; ASTM D-1044.
Tensile Set	60 %	60 %	at break; ASTM D-412

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

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