

BASF Elastollan® 1185A Polyether Type Polyurethane Elastomer

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

Material Notes:

Processed by extrusion or 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-1185A-Polyether-Type-Polyurethane-Elastomer.php

Physical Properties	Metric	English	Comments
Density	1.12 g/cc	0.0405 lb/in ³	ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	86	86	ASTM D2240
Tensile Strength, Ultimate	33.0 MPa	4790 psi	ASTM D412
Tensile Strength, Yield	7.60 MPa @Strain 100 %	1100 psi @Strain 100 %	ASTM D-412
	12.0 MPa @Strain 300 %	1740 psi @Strain 300 %	ASTM D-412
Elongation at Break	640 %	640 %	ASTM D412
Modulus of Elasticity	0.0250 GPa	3.63 ksi	
Poissons Ratio	0.25	0.25	Calculated
Shear Modulus	0.0100 GPa	1.45 ksi	
Tear Strength	105 kN/m	599 pli	ASTM D624
Taber Abrasion, mg/1000 Cycles	30	30	H-18 wheel; ASTM D-1044.
Tensile Set	70 %	70 %	at break; ASTM D-412

Thermal Properties	Metric	English	Comments
Vicat Softening Point	85.0 °C	185 °F	

Electrical Properties	Metric	English	Comments
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Comparative Tracking Index
Electrical Properties

≥ 600 V
Metric

≥ 600 V
English

RII/IBC 112
Comments

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