

BASF Elastollan® 1180A 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-1180A-Polyether-Type-Polyurethane-Elastomer.php

Physical Properties	Metric	English	Comments
Density	1.11 g/cc	0.0401 lb/in ³	ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	80	80	ASTM D2240
Tensile Strength, Ultimate	32.0 MPa	4640 psi	ASTM D412
Tensile Strength, Yield	5.50 MPa @Strain 100 %	798 psi @Strain 100 %	ASTM D-412
	10.0 MPa @Strain 300 %	1450 psi @Strain 300 %	ASTM D-412
Elongation at Break	600 %	600 %	ASTM D412
Tear Strength	90.0 kN/m	514 pli	ASTM D624
Taber Abrasion, mg/1000 Cycles	25	25	H-18 wheel; ASTM D-1044.
Tensile Set	45 %	45 %	at break; ASTM D-412

Electrical Properties	Metric	English	Comments
Electrical Resistivity	>= 1.00e+11 ohm-cm	>= 1.00e+11 ohm-cm	DIN 53482/VDE 0303
Surface Resistance	>= 1.00e+11 ohm	>= 1.00e+11 ohm	DIN 53482/VDE 0303
Dielectric Constant	6.5 @Frequency 1e+6 Hz	6.5 @Frequency 1e+6 Hz	DIN 53483/VDE 0303
	7.6 @Frequency 1000 Hz	7.6 @Frequency 1000 Hz	DIN 53483/VDE 0303

Electrical Properties	Metric	English	Comments
	@Frequency 50 Hz	@Frequency 50 Hz	DIN 53481/VDE 0303
Dielectric Strength	39.0 kV/mm	991 kV/in	DIN 53481/VDE 0303
Dissipation Factor	0.026	0.026	
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	0.087	0.087	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	0.121	0.121	
	@Frequency 50 Hz	@Frequency 50 Hz	
Comparative Tracking Index	>= 600 V	>= 600 V	DIN/IRC 112

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