

BASF Elastollan® 1195A 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-1195A-Polyether-Type-Polyurethane-Elastomer.php

Physical Properties	Metric	English	Comments
Density	1.14 g/cc	0.0412 lb/in ³	ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	95	95	ASTM D2240
Hardness, Shore D	47	47	ASTM D2240
Tensile Strength, Ultimate	36.0 MPa	5220 psi	ASTM D412
Tensile Strength, Yield	12.0 MPa	1740 psi	ASTM D-412
	@Strain 100 %	@Strain 100 %	
	21.0 MPa	3050 psi	ASTM D-412
	@Strain 300 %	@Strain 300 %	
Elongation at Break	490 %	490 %	ASTM D412
Modulus of Elasticity	0.0650 GPa	9.43 ksi	
Shear Modulus	0.0390 GPa	5.66 ksi	
Tear Strength	140 kN/m	799 pli	ASTM D624
Taber Abrasion, mg/1000 Cycles	55	55	H-18 wheel; ASTM D-1044.
Tensile Set	65 %	65 %	at break; ASTM D-412

Thermal Properties	Metric	English	Comments
Vicat Softening Point	130 °C	266 °F	

Electrical Properties	Metric	English	Comments
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Electrical Properties	$\geq 1.00\text{e}+11$ ohm-cm Metric	$\geq 1.00\text{e}+11$ ohm-cm English	DIN 53482/VDE 0303 Comments
Surface Resistance	$\geq 1.00\text{e}+11$ ohm	$\geq 1.00\text{e}+11$ ohm	DIN 53482/VDE 0303
Comparative Tracking Index	≥ 600 V	≥ 600 V	DIN/IRC 112

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