

BASF Elastollan® 1164D 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-1164D-Polyether-Type-Polyurethane-Elastomer.php

Physical Properties	Metric	English	Comments
Density	1.18 g/cc	0.0426 lb/in ³	ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	64	64	ASTM D2240
Tensile Strength, Ultimate	41.0 MPa	5950 psi	ASTM D412
Tensile Strength, Yield	25.0 MPa	3630 psi	ASTM D-412
	@Strain 100 %	@Strain 100 %	
Elongation at Break	33.0 MPa	4790 psi	ASTM D-412
	@Strain 300 %	@Strain 300 %	
Modulus of Elasticity	0.280 GPa	40.6 ksi	
Shear Modulus	0.150 GPa	21.8 ksi	
Tear Strength	220 kN/m	1260 pli	ASTM D624
Taber Abrasion, mg/1000 Cycles	55	55	H-18 wheel; ASTM D-1044.
Tensile Set	90 %	90 %	at break; ASTM D-412

Thermal Properties	Metric	English	Comments
Vicat Softening Point	145 °C	293 °F	

Electrical Properties	Metric	English	Comments
Dielectric Constant	4.6	4.6	DIN 53483/VDE 0303

Electrical Properties	@Frequency 1e+6 Hz Metric	@Frequency 1e+6 Hz English	Comments
	5.4	5.4	DIN 53483/VDE 0303
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	5.8	5.8	DIN 53483/VDE 0303
	@Frequency 50 Hz	@Frequency 50 Hz	
Dielectric Strength	>= 49.0 kV/mm	>= 1240 kV/in	DIN 53481/VDE 0303
Dissipation Factor	0.035	0.035	
	@Frequency 50 Hz	@Frequency 50 Hz	
	0.035	0.035	
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	0.048	0.048	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Comparative Tracking Index	>= 600 V	>= 600 V	DIN/IRC 112

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China