

BASF Elastollan® C-64D Polyester Type Polyurethane Elastomer

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

Material Notes:

Recommended for injection molding. Elastollan C series of products are polyester-based thermoplastic polyurethanes that exhibit very good hydrolytic stability. They also exhibit excellent oil, fuel and solvent 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-C-64D-Polyester-Type-Polyurethane-Elastomer.php

Physical Properties	Metric	English	Comments
Density	1.24 g/cc	0.0448 lb/in ³	ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	64	64	ASTM D2240
Tensile Strength, Ultimate	40.0 MPa	5800 psi	ASTM D412
Tensile Strength, Yield	26.0 MPa @Strain 100 %	3770 psi @Strain 100 %	ASTM D-412
	38.0 MPa @Strain 300 %	5510 psi @Strain 300 %	ASTM D-412
Elongation at Break	430 %	430 %	ASTM D412
Modulus of Elasticity	0.400 GPa	58.0 ksi	
Shear Modulus	0.250 GPa	36.3 ksi	
Tear Strength	220 kN/m	1260 pli	ASTM D624
Taber Abrasion, mg/1000 Cycles	50	50	H-18 wheel; ASTM D-1044.
Tensile Set	100 %	100 %	at break; ASTM D-412

Thermal Properties	Metric	English	Comments
Vicat Softening Point	165 °C	329 °F	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	>= 1.00e+13 ohm-cm	>= 1.00e+13 ohm-cm	DIN 53482/VDE 0303
Surface Resistance	>= 1.00e+12 ohm	>= 1.00e+12 ohm	DIN 53482/VDE 0303

Electrical Properties	Metric	English	Comments
Dielectric Constant	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	DIN 53483/VDE 0303
	4.8	4.8	DIN 53483/VDE 0303
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dielectric Strength	5.1	5.1	DIN 53483/VDE 0303
	@Frequency 50 Hz	@Frequency 50 Hz	
Dissipation Factor	>= 49.0 kV/mm	>= 1240 kV/in	DIN 53481/VDE 0303
	0.031	0.031	
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Comparative Tracking Index	0.034	0.034	
	@Frequency 50 Hz	@Frequency 50 Hz	
Dissipation Factor	0.045	0.045	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Comparative Tracking Index	>= 600 V	>= 600 V	DIN/IRC 112

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