

BASF Elastollan® C-80A Polyester Type Polyurethane Elastomer

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

Material Notes:

Processed by extrusion or 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-80A-Polyester-Type-Polyurethane-Elastomer.php

Physical Properties	Metric	English	Comments
Density	1.19 g/cc	0.0430 lb/in ³	ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	82	82	ASTM D2240
Tensile Strength, Ultimate	36.0 MPa	5220 psi	ASTM D412
Tensile Strength, Yield	1.10 MPa @Strain 300 %	160 psi @Strain 300 %	ASTM D-412
	5.50 MPa @Strain 100 %	798 psi @Strain 100 %	ASTM D-412
Elongation at Break	700 %	700 %	ASTM D412
Tear Strength	85.0 kN/m	485 pli	ASTM D624
Taber Abrasion, mg/1000 Cycles	25	25	H-18 wheel; ASTM D-1044.
Tensile Set	30 %	30 %	at break; ASTM D-412

Electrical Properties	Metric	English	Comments
Electrical Resistivity	>= 1.00e+10 ohm-cm	>= 1.00e+10 ohm-cm	DIN 53482/VDE 0303
Surface Resistance	>= 1.00e+10 ohm	>= 1.00e+10 ohm	DIN 53482/VDE 0303
Dielectric Constant	6.1 @Frequency 1e+6 Hz	6.1 @Frequency 1e+6 Hz	DIN 53483/VDE 0303
	6.6 @Frequency 1000 Hz	6.6 @Frequency 1000 Hz	DIN 53483/VDE 0303
	7.1	7.1	

Electrical Properties	Metric @Frequency 50 Hz	English @Frequency 50 Hz	DIN 53483/VDE 0303 Comments
Dielectric Strength	31.0 kV/mm	787 kV/in	DIN 53481/VDE 0303
Dissipation Factor	0.024	0.024	
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	0.053	0.053	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	0.20	0.20	
	@Frequency 50 Hz	@Frequency 50 Hz	
Comparative Tracking Index	>= 600 V	>= 600 V	DIN/IRC 112

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