

BASF Elastollan® C-95A 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-95A-Polyester-Type-Polyurethane-Elastomer.php

Physical Properties	Metric	English	Comments
Density	1.21 g/cc	0.0437 lb/in ³	ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	96	96	ASTM D2240
Hardness, Shore D	46	46	ASTM D2240
Tensile Strength, Ultimate	40.0 MPa	5800 psi	ASTM D412
Tensile Strength, Yield	13.0 MPa @Strain 100 %	1890 psi @Strain 100 %	ASTM D-412
	26.0 MPa @Strain 300 %	3770 psi @Strain 300 %	ASTM D-412
Elongation at Break	480 %	480 %	ASTM D412
Modulus of Elasticity	0.150 GPa	21.8 ksi	
Shear Modulus	0.0450 GPa	6.53 ksi	
Tear Strength	140 kN/m	799 pli	ASTM D624
Taber Abrasion, mg/1000 Cycles	35	35	H-18 wheel; ASTM D-1044.
Tensile Set	65 %	65 %	at break; ASTM D-412

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

Electrical Properties	Metric	English	Comments
Electrical Resistivity	>= 1.00e+11 ohm-cm	>= 1.00e+11 ohm-cm	DIN 53482/VDE 0303

Electrical Properties	Metric	English	Comments
Dielectric Constant	5.3	5.3	DIN 53483/VDE 0303
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	6.1	6.1	DIN 53483/VDE 0303
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	6.4	6.4	DIN 53483/VDE 0303
	@Frequency 50 Hz	@Frequency 50 Hz	
Dielectric Strength	48.0 kV/mm	1220 kV/in	DIN 53481/VDE 0303
Dissipation Factor	0.024	0.024	
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	0.036	0.036	
	@Frequency 50 Hz	@Frequency 50 Hz	
	0.054	0.054	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Comparative Tracking Index	>= 600 V	>= 600 V	DIN/IRC 112

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