

BASF Elastollan® C-85A 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-85A-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	85	85	ASTM D2240
Tensile Strength, Ultimate	39.0 MPa	5660 psi	ASTM D412
Tensile Strength, Yield	1.30 MPa @Strain 300 %	189 psi @Strain 300 %	ASTM D-412
	6.60 MPa @Strain 100 %	957 psi @Strain 100 %	ASTM D-412
Elongation at Break	620 %	620 %	ASTM D412
Modulus of Elasticity	0.0200 GPa	2.90 ksi	
Shear Modulus	0.0120 GPa	1.74 ksi	
Tear Strength	95.0 kN/m	542 pli	ASTM D624
Taber Abrasion, mg/1000 Cycles	25	25	H-18 wheel; ASTM D-1044.
Tensile Set	35 %	35 %	at break; ASTM D-412

Thermal Properties	Metric	English	Comments
Vicat Softening Point	95.0 °C	203 °F	
Flammability, UL94	HB @Thickness 0.950 mm	HB @Thickness 0.0374 in	Color: NC.

Electrical Properties	Metric	English	Comments
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Compression Tensile Index

Metric ≈ 500 V

English ≈ 500 V

Comments ≈ 112

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