

BASF Elastollan® 1180A10 Wire & Cable Grade Polyurethane Elastomer

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

Material Notes:

As with all TPU products this grade must be dried prior to processing. Information provided by BASF Corporation.

Order this product through the following link:

http://www.lookpolymers.com/polymer_BASF-Elastollan-1180A10-Wire-Cable-Grade-Polyurethane-Elastomer.php

Physical Properties	Metric	English	Comments
Density	1.11 g/cc	0.0401 lb/in ³	molded plaque, cured 20 hr at 100°C; ASTM D792
	@Thickness 2.00 mm	@Thickness 0.0787 in	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	80	80	molded plaque, cured 20 hr at 100°C; ASTM D2240
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Tensile Strength, Ultimate	48.0 MPa	6960 psi	molded plaque, cured 20 hr at 100°C; ASTM D412
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Tensile Strength, Yield	4.80 MPa	696 psi	ASTM D-412
	@Strain 100 %	@Strain 100 %	
	12.0 MPa	1740 psi	extruded sheet; ASTM D412
	@Strain 300 %, Thickness 0.760 mm	@Strain 300 %, Thickness 0.0299 in	
Elongation at Break	625 %	625 %	on 0.030 in extruded sheet; ASTM D-412
Flexural Modulus	0.0300 GPa	4.35 ksi	molded plaque, cured 20 hr at 100°C; ASTM D790
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Tear Strength	42.0 kN/m	240 pli	Split tear strength; extruded sheet; ASTM D1938
	@Thickness 0.760 mm	@Thickness 0.0299 in	
Graves Tear Strength	77.0 kN/m	439 pli	on extruded sheet; ASTM D624
	@Thickness 0.760 mm	@Thickness 0.0299 in	
Taber Abrasion, mg/1000 Cycles	20	20	H-18 wheel; molded plaque, cured 20 hr at 100°C.; ASTM D1044
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Compression Set	45 %	45 %	22 hr @ 70°C; ASTM D-395; 0.080 in molded plaque after curing 20 hrs at 100°C.
	@Temperature 70.0 °C	@Temperature 158 °F	
	25 %	25 %	22 hr at 23°C; molded plaque, cured

Mechanical Properties	Metric @ Thickness 2.00 mm	English @ Thickness 0.0787 in	20 hr at 100°C.; ASTM D395 Comments
Tensile Set	32 %	32 %	at 200% elongation per ASTM D-412 is on 0.030 in extruded sheet.

Thermal Properties	Metric	English	Comments
Vicat Softening Point	90.0 °C @Thickness 2.00 mm	194 °F @Thickness 0.0787 in	molded plaque, cured 20 hr at 100°C; ASTM D1525
Glass Transition Temp, Tg	-43.0 °C	-45.4 °F	Pellet sample
Flammability, UL94	HB @Thickness 0.830 mm	HB @Thickness 0.0327 in	Color: NC.

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