

BASF Elastollan® 1190A10 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-1190A10-Wire-Cable-Grade-Polyurethane-Elastomer.php

Physical Properties	Metric	English	Comments
Density	1.13 g/cc	0.0408 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	90	90	molded plaque, cured 20 hr at 100°C; ASTM D2240
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Tensile Strength, Ultimate	55.0 MPa	7980 psi	molded plaque, cured 20 hr at 100°C; ASTM D412
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Tensile Strength, Yield	9.00 MPa	1310 psi	ASTM D-412
	@Strain 100 %	@Strain 100 %	
Elongation at Break	25.0 MPa	3630 psi	0.76 mm (0.030 in) extruded sheet; ASTM D-412
	@Strain 300 %	@Strain 300 %	
Flexural Modulus	500 %	500 %	on 0.030 in extruded sheet; ASTM D-412
	0.0500 GPa	7.25 ksi	
Tear Strength	@Thickness 2.00 mm	@Thickness 0.0787 in	molded plaque, cured 20 hr at 100°C; ASTM D790
	58.0 kN/m	331 pli	
Graves Tear Strength	@Thickness 0.762 mm	@Thickness 0.0300 in	Split tear strength, extruded sheet; ASTM D-1938
	114 kN/m	650 pli	
Taber Abrasion, mg/1000 Cycles	@Thickness 0.762 mm	@Thickness 0.0300 in	extruded sheet; ASTM D624
	30	30	
Compression Set	@Thickness 2.00 mm	@Thickness 0.0787 in	H-18 wheel; ASTM D-1044; molded plaque, cured 20 hr at 100°C.
	45 %	45 %	
Compression Set	@Temperature 70.0 °C	@Temperature 158 °F	22 hr @ 70°C; ASTM D-395; 0.080 in molded plaque after curing 20 hrs at 100°C.
	25 %	25 %	
			22 hr at 23°C; molded plaque, cured 20 hr at 100°C.; ASTM D395

Mechanical Properties	@Thickness 2.00 mm Metric	@Thickness 0.0787 in English	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	110 °C @Thickness 2.00 mm	230 °F @Thickness 0.0787 in	molded plaque, cured 20 hr at 100°C; ASTM D1525
Glass Transition Temp, Tg	-35.0 °C	-31.0 °F	Pellet sample

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