

BASF Elastollan® 1185A10V Wire & Cable Grade Polyurethane Elastomer

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

Material Notes:

Compliant with NSF Standard 61 (Drinking water contact). 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-1185A10V-Wire-Cable-Grade-Polyurethane-Elastomer.php

Physical Properties	Metric	English	Comments
Density	1.12 g/cc @Thickness 2.00 mm	0.0405 lb/in ³ @Thickness 0.0787 in	molded plaque, cured 20 hr at 100°C; ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	86 @Thickness 2.00 mm	86 @Thickness 0.0787 in	molded plaque, cured 20 hr at 100°C; ASTM D2240
Tensile Strength, Ultimate	52.0 MPa @Thickness 2.00 mm	7540 psi @Thickness 0.0787 in	molded plaque, cured 20 hr at 100°C; ASTM D412
Tensile Strength, Yield	7.60 MPa @Strain 100 %	1100 psi @Strain 100 %	ASTM D-412
	19.0 MPa @Strain 300 %	2760 psi @Strain 300 %	0.76 mm (0.030 in) extruded sheet; ASTM D-412
Elongation at Break	570 %	570 %	on 0.030 in extruded sheet; ASTM D-412
Flexural Modulus	0.0430 GPa @Thickness 2.00 mm	6.24 ksi @Thickness 0.0787 in	molded plaque, cured 20 hr at 100°C; ASTM D790
Tear Strength	66.0 kN/m @Thickness 0.760 mm	377 pli @Thickness 0.0299 in	Split tear strength; extruded sheet; ASTM D-1938
Graves Tear Strength	88.0 kN/m @Thickness 0.762 mm	502 pli @Thickness 0.0300 in	extruded sheet; ASTM D624
Taber Abrasion, mg/1000 Cycles	25 @Thickness 2.00 mm	25 @Thickness 0.0787 in	H-18 wheel; ASTM D-1044; molded plaque, cured 20 hr at 100°C.
Compression Set	25 %	25 %	22 hr at 23°C per ASTM D-395; 2.0 mm (0.080 in) molded plaque, cured 20 hr at 100°C.

Mechanical Properties	Metric	English	Comments
	@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.
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	100 °C @Thickness 2.00 mm	212 °F @Thickness 0.0787 in	molded plaque, cured 20 hr at 100°C.; ASTM D1525
Glass Transition Temp, Tg	-40.0 °C	-40.0 °F	Pellet sample

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