

BASF Elastollan® 1175A10W 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-1175A10W-Wire-Cable-Grade-Polyurethane-Elastomer.php

Physical Properties	Metric	English	Comments
Density	1.14 g/cc	0.0412 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	75	75	molded plaque, cured 20 hr at 100°C; ASTM D2240
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Tensile Strength, Ultimate	41.0 MPa	5950 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 %	
Elongation at Break	11.0 MPa	1600 psi	0.76 mm (0.030 in) extruded sheet; ASTM D-412
	@Strain 300 %	@Strain 300 %	
Flexural Modulus	685 %	685 %	on 0.030 in extruded sheet; ASTM D-412
	0.0250 GPa	3.63 ksi	
Tear Strength	@Thickness 2.00 mm	@Thickness 0.0787 in	molded plaque, cured 20 hr at 100°C; ASTM D790
	27.0 kN/m	154 pli	
Graves Tear Strength	@Thickness 0.760 mm	@Thickness 0.0299 in	Split tear strength; extruded sheet; ASTM D-1938
	57.0 kN/m	325 pli	
Taber Abrasion, mg/1000 Cycles	@Thickness 0.762 mm	@Thickness 0.0300 in	extruded sheet; ASTM D624
	20	20	
Compression Set	@Thickness 2.00 mm	@Thickness 0.0787 in	H-18 wheel; ASTM D-1044; molded plaque, cured 20 hr at 100°C.
	25 %	25 %	
	45 %	45 %	22 hr at 23°C per ASTM D-395; 2.0 mm (0.080 in) molded plaque, cured 20 hr at 100°C.
			22 hr @ 70°C; ASTM D-395; 0.080 in molded plaque after curing 20 hrs at

Mechanical Properties	@Temperature 70.0 °C Metric	@Temperature 158 °F English	100°C 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	80.0 °C @Thickness 2.00 mm	176 °F @Thickness 0.0787 in	molded plaque, cured 20 hr at 100°C.; ASTM D1525
Glass Transition Temp, Tg	-47.0 °C	-52.6 °F	Pellet sample
Flammability, UL94	V-2 @Thickness 1.59 mm	V-2 @Thickness 0.0626 in	Color: NC
	V-2 @Thickness 3.14 mm	V-2 @Thickness 0.124 in	Color: NC
	V-0 @Thickness 0.900 mm	V-0 @Thickness 0.0354 in	Color: NC

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China