

BASF Elastollan® 1185A10U 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-1185A10U-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	86	86	molded plaque, cured 20 hr at 100°C; ASTM D2240
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Tensile Strength, Ultimate	52.0 MPa	7540 psi	molded plaque, cured 20 hr at 100°C; ASTM D412
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Tensile Strength, Yield	7.60 MPa	1100 psi	ASTM D-412
	@Strain 100 %	@Strain 100 %	
Elongation at Break	19.0 MPa	2760 psi	0.76 mm (0.030 in) extruded sheet; ASTM D-412
	@Strain 300 %	@Strain 300 %	
Flexural Modulus	570 %	570 %	on 0.030 in extruded sheet; ASTM D-412
	0.0430 GPa	6.24 ksi	
Tear Strength	@Thickness 2.00 mm	@Thickness 0.0787 in	molded plaque, cured 20 hr at 100°C; ASTM D790
	66.0 kN/m	377 pli	
Graves Tear Strength	@Thickness 0.760 mm	@Thickness 0.0299 in	Split tear strength; extruded sheet; ASTM D-1938
	88.0 kN/m	502 pli	
Taber Abrasion, mg/1000 Cycles	@Thickness 0.762 mm	@Thickness 0.0300 in	extruded sheet; ASTM D624
	25	25	
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	
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.
	45 %	45 %	
			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	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

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