

## BASF Elastollan® 1185A10W 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-1185A10W-Wire-Cable-Grade-Polyurethane-Elastomer.php](http://www.lookpolymers.com/polymer_BASF-Elastollan-1185A10W-Wire-Cable-Grade-Polyurethane-Elastomer.php)

Physical Properties	Metric	English	Comments
Density	1.16 g/cc	0.0419 lb/in <sup>3</sup>	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	83	83	molded plaque, cured 20 hr at 100°C; ASTM D2240
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Tensile Strength, Ultimate	38.0 MPa	5510 psi	molded plaque, cured 20 hr at 100°C; ASTM D412
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Tensile Strength, Yield	5.90 MPa	856 psi	ASTM D-412
	@Strain 100 %	@Strain 100 %	
Elongation at Break	13.0 MPa	1890 psi	extruded sheet; ASTM D412
	@Strain 300 %, Thickness 0.760 mm	@Strain 300 %, Thickness 0.0299 in	
Flexural Modulus	595 %	595 %	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 D1938
	88.0 kN/m	502 pli	
Taber Abrasion, mg/1000 Cycles	@Thickness 0.760 mm	@Thickness 0.0299 in	on extruded sheet; ASTM D624
	35	35	
Compression Set	@Thickness 2.00 mm	@Thickness 0.0787 in	H-18 wheel; molded plaque, cured 20 hr at 100°C.; ASTM D1044
	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

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	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	-43.0 °C	-45.4 °F	Pellet sample
Flammability, UL94	V-2 @Thickness 0.830 mm	V-2 @Thickness 0.0327 in	Color: NC. V-2
	V-2 @Thickness 1.50 mm	V-2 @Thickness 0.0591 in	Color: NC. V-2
	V-2 @Thickness 3.00 mm	V-2 @Thickness 0.118 in	Color: NC. V-2

## Contact Songhan Plastic Technology Co.,Ltd.

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