

BASF Elastollan® C85A10 (917) 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-C85A10-917-Wire-Cable-Grade-Polyurethane-Elastomer.php

Physical Properties	Metric	English	Comments
Density	1.19 g/cc	0.0430 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	85	85	molded plaque, cured 20 hr at 100°C; ASTM D2240
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Tensile Strength, Ultimate	67.0 MPa	9720 psi	molded plaque, cured 20 hr at 100°C; ASTM D412
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Tensile Strength, Yield	6.00 MPa	870 psi	ASTM D-412
	@Strain 100 %	@Strain 100 %	
Elongation at Break	15.0 MPa	2180 psi	extruded sheet; ASTM D412
	@Strain 300 %, Thickness 0.760 mm	@Strain 300 %, Thickness 0.0299 in	
Flexural Modulus	660 %	660 %	on 0.030 in extruded sheet; ASTM D-412
	0.0480 GPa	6.96 ksi	
Tear Strength	@Thickness 2.00 mm	@Thickness 0.0787 in	molded plaque, cured 20 hr at 100°C; ASTM D790
	70.0 kN/m	399 pli	
Graves Tear Strength	@Thickness 0.760 mm	@Thickness 0.0299 in	Split tear strength; extruded sheet; ASTM D1938
	92.0 kN/m	525 pli	
Taber Abrasion, mg/1000 Cycles	@Thickness 0.760 mm	@Thickness 0.0299 in	on extruded sheet; ASTM D624
	25	25	
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	-38.0 °C	-36.4 °F	Pellet sample

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