

BASF Elastollan 1185 A FHF TPUR Flame Retardant Halogen Free

Category : Polymer , Thermoplastic , Polyurethane, TP , Thermoplastic Polyurethane (TPUR), Polyether Grade

Material Notes:

Description: Thermoplastic Polyether Polyurethane Elastomers with outstanding hydrolysis resistance, low temperature flexibility and resistance to micro-organisms. Typical Applications: Cable sheathing, plugs and terminations, spiral tubing, films, ski boot shells, ear tags, technical moldings, e.g. mining screens, railway pads and seals. Note: Quoted results are from measurements on injection molded test platens, post tempered for 20 hours at 100°C. Information provided by BASF

Order this product through the following link:

http://www.lookpolymers.com/polymer_BASF-Elastollan-1185-A-FHF-TPUR-Flame-Retardant-Halogen-Free.php

Physical Properties	Metric	English	Comments
Density	1.23 g/cc	0.0444 lb/in ³	ISO 1183-1-A

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	89	89	ISO 868
Hardness, Shore D	37	37	ISO 686
Tensile Strength	20.0 MPa	2900 psi	after storage in water at 80°C for 42 days; ISO 37
	35.0 MPa	5080 psi	ISO 37
	3.50 MPa	508 psi	ISO 37
	@Strain 20.0 %	@Strain 20.0 %	
	8.00 MPa	1160 psi	ISO 37
	@Strain 100 %	@Strain 100 %	
	13.0 MPa	1890 psi	ISO 37
	@Strain 300 %	@Strain 300 %	
Elongation at Break	600 %	600 %	ISO 37
	600 %	600 %	after storage in water at 80°C for 42 days; ISO 37
Charpy Impact, Notched	12.0 J/cm ²	57.1 ft-lb/in ²	DIN EN ISO 179
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	NB	NB	DIN EN ISO 179
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Tear Strength	60.0 kN/m	342 pli	DIN ISO 34-1/Bb
Abrasion	35	35	[mm³; ISO 4649

Mechanical Properties	Metric	English	Comments
Compression Set	@Temperature 23.0 °C	@Temperature 73.4 °F	ISO 815
	45 %	45 %	ISO 815
	@Temperature 70.0 °C	@Temperature 158 °F	

Thermal Properties	Metric	English	Comments
Flammability, UL94	V-0	V-0	

Processing Properties	Metric	English	Comments
Processing Temperature	160 - 220 °C	320 - 428 °F	Extrusion
	170 - 240 °C	338 - 464 °F	Injection molding
Mold Temperature	20.0 - 70.0 °C	68.0 - 158 °F	

Descriptive Properties	Value	Comments
Commercial Status	North America	
Primary Processing Technique	Injection molding and Extrusion	

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