

Lubrizol ESTANE® 58810 Ether Based Thermoplastic Polyurethane

Category : Polymer , Thermoplastic , Elastomer, TPE , Polyurethane, TP , Thermoplastic Polyurethane, Elastomer, Ether Grade

Material Notes:

Features: High melt flow and improved temperature resistance
 Uses: Extrusion – Wire and cable, Hose and tube
 Available in Americas, Europe, Middle East, Africa, India and Asia
 Information provided by Lubrizol.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lubrizol-ESTANE-58810-Ether-Based-Thermoplastic-Polyurethane.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.13 g/cc	1.13 g/cc	ASTM D792
Maximum Moisture Content	0.020	0.020	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	87 - 93	87 - 93	ASTM D2240
	@Time 5.00 sec	@Time 0.00139 hour	
Tensile Strength	38.3 MPa	5550 psi	ASTM D412
Elongation at Break	525 %	525 %	ASTM D412
100% Modulus	0.00900 GPa	1.31 ksi	ASTM D412
300% Modulus	0.0172 GPa	2.49 ksi	ASTM D412
Flexural Modulus	0.0377 GPa	5.47 ksi	ASTM D790
Tear Strength	17.9 kN/m	102 pli	Die C; ASTM D624
Graves Tear Strength	59.6 kN/m	340 pli	Trouser; ASTM D470
Taber Abrasion, mg/1000 Cycles	41	41	H18, 1000g; ASTM D3389 B
Compression Set	25 %	25 %	
	@Temperature 23.0 °C, Time 79200 sec	@Temperature 73.4 °F, Time 22.0 hour	
	60 %	60 %	
	@Temperature 70.0 °C, Time 79200 sec	@Temperature 158 °F, Time 22.0 hour	

Thermal Properties	Metric	English	Comments
Glass Transition Temp, Tg	-44.0 °C	-47.2 °F	DSC

Processing Properties	Metric	English	Comments
Zone 1	176 °C	349 °F	Extrusion
Zone 2	182 °C	360 °F	Extrusion
Zone 3	191 °C	376 °F	Extrusion
Zone 4	196 °C	385 °F	Extrusion
Adapter Temperature	199 °C	390 °F	5, Extrusion
Die Temperature	194 °C	381 °F	6, Zone 2, Extrusion
	196 °C	385 °F	6, Zone 1, Extrusion
Drying Temperature	104 °C	219 °F	
Dry Time	2.00 - 4.00 hour	2.00 - 4.00 hour	
Dew Point	-40.0 °C	-40.0 °F	

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