

Lubrizol ESTANE® 58863 Ether Based Thermoplastic Polyurethane

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

Material Notes:

Features: Good Elasticity – High melt flow for easy processing
 Uses: Extrusion – Wire and cable, general extrusion
 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-58863-Ether-Based-Thermoplastic-Polyurethane.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.12 g/cc	1.12 g/cc	ASTM D792
Maximum Moisture Content	0.020	0.020	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	82 - 88	82 - 88	ASTM D2240
	@Time 5.00 sec	@Time 0.00139 hour	
Tensile Strength	40.7 MPa	5900 psi	ASTM D412
Elongation at Break	600 %	600 %	ASTM D412
100% Modulus	0.00690 GPa	1.00 ksi	ASTM D412
300% Modulus	0.01110 GPa	1.60 ksi	ASTM D412
Flexural Modulus	0.0410 GPa	5.94 ksi	ASTM D790
Tear Strength	22.8 kN/m	130 pli	Trouser; ASTM D470
Graves Tear Strength	66.6 kN/m	380 pli	Die C; ASTM D624
Taber Abrasion, mg/1000 Cycles	4.5	4.5	CS-17, 1000g; ASTM D3389 B
Compression Set	20 %	20 %	
	@Temperature 23.0 °C, Time 79200 sec	@Temperature 73.4 °F, Time 22.0 hour	
	66 %	66 %	
	@Temperature 70.0 °C, Time 79200 sec	@Temperature 158 °F, Time 22.0 hour	

Thermal Properties	Metric	English	Comments
Glass Transition Temp, Tg	-50.0 °C	-58.0 °F	DSC

Processing Properties	Metric	English	Comments
Zone 1	174 °C	345 °F	Extrusion
Zone 2	180 °C	356 °F	Extrusion
Zone 3	188 °C	370 °F	Extrusion
Zone 4	194 °C	381 °F	Extrusion
Adapter Temperature	194 °C	381 °F	5, Extrusion
Die Temperature	185 °C	365 °F	Zone 2, Extrusion
	191 °C	376 °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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