

Lubrizol ESTANE® 58866 Ether Based Thermoplastic Polyurethane

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

Material Notes:

Features: Transparent flame retardant compound
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-58866-Ether-Based-Thermoplastic-Polyurethane.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.17 g/cc	1.17 g/cc	ASTM D792
Loss On Ignition	30 %	30 %	ASTM D2863
Maximum Moisture Content	0.020	0.020	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	82 - 88 @Time 5.00 sec	82 - 88 @Time 0.00139 hour	ASTM D2240
Tensile Strength	27.6 MPa	4000 psi	ASTM D412
Elongation at Break	730 %	730 %	ASTM D412
100% Modulus	0.00450 GPa	0.653 ksi	ASTM D412
300% Modulus	0.00690 GPa	1.00 ksi	ASTM D412
Flexural Modulus	0.0229 GPa	3.32 ksi	ASTM D790
Tear Strength	18.4 kN/m	105 pli	Trouser; ASTM D470
Graves Tear Strength	54.3 kN/m	310 pli	Die C; ASTM D624
Taber Abrasion, mg/1000 Cycles	3.0	3.0	CS-17, 1000g; ASTM D3389 B
Compression Set	24 % @Temperature 23.0 °C, Time 79200 sec	24 % @Temperature 73.4 °F, Time 22.0 hour	
	70 % @Temperature 70.0 °C, Time 79200 sec	70 % @Temperature 158 °F, Time 22.0 hour	

Thermal Properties	Metric	English	Comments
Glass Transition Temp, Tg	-47.0 °C	-52.6 °F	DSC

Thermal Properties	Metric	English	Comments
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Optical Properties	Metric	English	Comments
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Transmission, Visible	90 %	90 %	transparent; thickness not quantified
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Processing Properties	Metric	English	Comments
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Zone 1	177 °C	351 °F	Extrusion
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Zone 2	183 °C	361 °F	Extrusion
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Zone 3	188 °C	370 °F	Extrusion
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Zone 4	194 °C	381 °F	Extrusion
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Adapter Temperature	194 °C	381 °F	5, Extrusion
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Die Temperature	185 °C	365 °F	Zone 2, Extrusion
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	191 °C	376 °F	6, Zone 1, Extrusion
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Drying Temperature	104 °C	219 °F	
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Dry Time	2.00 - 4.00 hour	2.00 - 4.00 hour	
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Dew Point	-40.0 °C	-40.0 °F	
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