

Lubrizol ESTANE® 58370 Ether Based Thermoplastic Polyurethane

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

Material Notes:

Features: Halogenated flame retardant compound
 Uses: Extrusion – Wire and cable and general application where flame retardant properties are needed
 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-58370-Ether-Based-Thermoplastic-Polyurethane.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.18 g/cc	1.18 g/cc	ASTM D792
Loss On Ignition	28 %	28 %	ASTM D2863
Maximum Moisture Content	0.020	0.020	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	77 - 83 @Time 5.00 sec	77 - 83 @Time 0.00139 hour	ASTM D2240
Tensile Strength	29.7 MPa	4310 psi	ASTM D412
Elongation at Break	690 %	690 %	ASTM D412
100% Modulus	0.00480 GPa	0.696 ksi	ASTM D412
300% Modulus	0.00660 GPa	0.957 ksi	ASTM D412
Tear Strength	17.9 kN/m	102 pli	Trouser; ASTM D470
Graves Tear Strength	59.6 kN/m	340 pli	Die C; ASTM D624
Taber Abrasion, mg/1000 Cycles	3.0	3.0	CS-17, 1000g; ASTM D3389 B

Thermal Properties	Metric	English	Comments
Glass Transition Temp, Tg	-50.0 °C	-58.0 °F	DSC
Flammability, UL94	V-2	V-2	

Processing Properties	Metric	English	Comments
Zone 1	175 °C	347 °F	Extrusion
Zone 2	180 °C	356 °F	Extrusion
Zone 3	188 °C	370 °F	Extrusion

Processing Properties	Metric	English	Comments
Adapter Temperature	194 °C	381 °F	Extrusion
Die Temperature	188 °C	370 °F	Zone 2, Extrusion
	194 °C	381 °F	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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