

Lubrizol ESTANE® 58630 Ether Based Thermoplastic Polyurethane

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

Material Notes:

Features: Good physical properties, hydrolysis resistance, low temperature performance and abrasion along with wide processing window for extrusion and low surface tack. Uses: Blown and flat die/cast film extrusion and cable jacketing. 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-58630-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	79 - 85	79 - 85	ASTM D2240
	@Time 5.00 sec	@Time 0.00139 hour	
Tensile Strength	41.4 MPa	6000 psi	ASTM D412
Elongation at Break	640 %	640 %	ASTM D412/D638
100% Modulus	0.00520 GPa	0.754 ksi	ASTM D412
300% Modulus	0.00760 GPa	1.10 ksi	ASTM D412
Tear Strength	22.8 kN/m	130 pli	Trouser; ASTM D470
Graves Tear Strength	70.1 kN/m	400 pli	Die C; ASTM D624
Taber Abrasion, mg/1000 Cycles	60	60	H18, 1000g; ASTM D3389 B
Tensile Set	15 %	15 %	200% elongation; ASTM D412

Thermal Properties	Metric	English	Comments
Melting Point	120 °C	248 °F	DSC
	125 °C	257 °F	Kofler
Glass Transition Temp, Tg	-50.0 °C	-58.0 °F	DSC

Processing Properties	Metric	English	Comments
Zone 1	166 °C	331 °F	Extrusion

Zone 2 Processing Properties	171 °C Metric	340 °F English	Extrusion Comments
Zone 3	177 °C	351 °F	Extrusion
Zone 4	182 °C	360 °F	Extrusion
Adapter Temperature	182 °C	360 °F	5, Extrusion
Die Temperature	182 °C	360 °F	6, Zone 1, Extrusion
	182 °C	360 °F	Zone 2, 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	

Descriptive Properties	Value	Comments
Volume Swell in Water	2.1%	24h, 23°C; ASTM D471

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