

Lubrizol ESTANE® 58315 Ether Based Thermoplastic Polyurethane

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

Material Notes:

Features: Very good physical properties, hydrolysis resistance, low temperature performance and abrasion. Wide processing window for extrusion. Uses: Blown and flat die/cast film extrusion, Injection molding 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-58315-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	48.3 MPa	7010 psi	ASTM D412
	33.81 MPa	4904 psi	30 Mil Sheet, Immersion in Water
	@Temperature 75.0 °C, Time 4.838e+6 sec	@Temperature 167 °F, Time 1344 hour	
	39.12 MPa	5674 psi	30 Mil Sheet, Immersion in Water
	@Temperature 75.0 °C, Time 605000 sec	@Temperature 167 °F, Time 168 hour	
	39.12 MPa	5674 psi	30 Mil Sheet, Immersion in Water
	@Temperature 75.0 °C, Time 1.21e+6 sec	@Temperature 167 °F, Time 336 hour	
	46.85 MPa	6795 psi	30 Mil Sheet, Immersion in Water
	@Temperature 75.0 °C, Time 2.82e+6 sec	@Temperature 167 °F, Time 784 hour	
	48.3 MPa	7010 psi	30 Mil Sheet, Immersion in Water
	@Temperature 75.0 °C, Time 0.000 sec	@Temperature 167 °F, Time 0.000 hour	
Elongation at Break	570 %	570 %	ASTM D412
100% Modulus	0.00620 GPa	0.899 ksi	ASTM D412
300% Modulus	0.0103 GPa	1.49 ksi	ASTM D412

Tear Strength Mechanical Properties	26.3 kN/m Metric	150 pli English	Troquer: ASTM D470 Comments
Graves Tear Strength	85.9 kN/m	490 pli	Die C; ASTM D624
Taber Abrasion, mg/1000 Cycles	37	37	H18, 1000g; ASTM D3389 B
Tensile Set	14 %	14 %	200% elongation; ASTM D412

Thermal Properties	Metric	English	Comments
Melting Point	135 °C	275 °F	DSC
	145 °C	293 °F	Kofler
Glass Transition Temp, Tg	-50.0 °C	-58.0 °F	DSC

Optical Properties	Metric	English	Comments
Haze	1.8 %	1.8 %	pressed between glass; ASTM D1003

Processing Properties	Metric	English	Comments
Zone 1	171 °C	340 °F	Extrusion
Zone 2	177 °C	351 °F	Extrusion
Zone 3	182 °C	360 °F	Extrusion
Zone 4	188 °C	370 °F	Extrusion
Adapter Temperature	188 °C	370 °F	5, Extrusion
Die Temperature	188 °C	370 °F	6, Zone 1, Extrusion
	188 °C	370 °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	

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