

Lubrizol ESTANE® 58300 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 with a wide processing window for extrusion. Uses: Blown and flat die/cast film extrusion, Injection molding and cable jacketing. Information provided by Lubrizol

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lubrizol-ESTANE-58300-Ether-Based-Thermoplastic-Polyurethane.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.10 g/cc	1.10 g/cc	ASTM D792
Maximum Moisture Content	0.020	0.020	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	82	82	ASTM D2240
	@Time 5.00 sec	@Time 0.00139 hour	
Tensile Strength	37.9 MPa	5500 psi	ASTM D412
	28.42 MPa	4122 psi	Immersion in Water
	@Temperature 75.0 °C, Time 4.838e+6 sec	@Temperature 167 °F, Time 1344 hour	
	29.18 MPa	4232 psi	Immersion in Water
	@Temperature 75.0 °C, Time 2.59e+6 sec	@Temperature 167 °F, Time 720 hour	
	29.94 MPa	4342 psi	Immersion in Water
	@Temperature 75.0 °C, Time 1.21e+6 sec	@Temperature 167 °F, Time 336 hour	
	30.69 MPa	4451 psi	Immersion in Water
	@Temperature 75.0 °C, Time 605000 sec	@Temperature 167 °F, Time 168 hour	
	37.9 MPa	5500 psi	Immersion in Water
	@Temperature 75.0 °C, Time 0.000 sec	@Temperature 167 °F, Time 0.000 hour	
Elongation at Break	700 %	700 %	ASTM D412
100% Modulus	0.00480 GPa	0.696 ksi	ASTM D412
300% Modulus	0.00760 GPa	1.10 ksi	ASTM D412
Tear Strength	22.8 kN/m	130 pli	ASTM D470

Mechanical Properties	Metric	English	Comments
Taber Abrasion, mg/1000 Cycles	22	22	H18, 1000g; ASTM D3389 B
Tensile Set	11 %	11 %	200% elongation; ASTM D412

Thermal Properties	Metric	English	Comments
Melting Point	125 °C	257 °F	Kofler
	130 °C	266 °F	DSC
Glass Transition Temp, Tg	-50.0 °C	-58.0 °F	DSC

Optical Properties	Metric	English	Comments
Haze	7.0 %	7.0 %	pressed between glass; ASTM D1003

Processing Properties	Metric	English	Comments
Zone 1	166 °C	331 °F	Extrusion
Zone 2	171 °C	340 °F	Extrusion
Zone 3	177 °C	351 °F	Extrusion
Zone 4	182 °C	360 °F	Extrusion
Adapter Temperature	182 °C	360 °F	Extrusion
Die Temperature	182 °C	360 °F	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%	24h/23°C, ASTM D471

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