

Lubrizol ESTANE® 58887 Ether Based Thermoplastic Polyurethane

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

Material Notes:

Features: Excellent hydrolysis resistance, low temperature performance, clarity and wide processing window for extrusion. Uses: Blown and flat die/cast film extrusion, Injection and blow molding; cable jacketing and profile extrusion. 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-58887-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	84 - 90	84 - 90	ASTM D2240
	@Time 5.00 sec	@Time 0.00139 hour	
Tensile Strength	51.7 MPa	7500 psi	ASTM D412
	38.78 MPa	5625 psi	30 mil sheet, Immersion in Water
	@Temperature 75.0 °C, Time 4.838e+6 sec	@Temperature 167 °F, Time 1344 hour	
	43.95 MPa	6374 psi	30 mil sheet, Immersion in Water
	@Temperature 75.0 °C, Time 2.42e+6 sec	@Temperature 167 °F, Time 672 hour	
	44.98 MPa	6524 psi	30 mil sheet, Immersion in Water
	@Temperature 75.0 °C, Time 1.21e+6 sec	@Temperature 167 °F, Time 336 hour	
	45.5 MPa	6600 psi	30 mil sheet, Immersion in Water
	@Temperature 75.0 °C, Time 605000 sec	@Temperature 167 °F, Time 168 hour	
	51.7 MPa	7500 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	500 %	500 %	ASTM D412
100% Modulus	0.00690 GPa	1.00 ksi	ASTM D412
300% Modulus	0.0124 GPa	1.80 ksi	ASTM D412

Tear Strength Mechanical Properties	26.3 kN/m Metric	150 pli English	Trouser: ASTM D470 Comments
Graves Tear Strength	87.7 kN/m	500 pli	Die C; ASTM D624
Taber Abrasion, mg/1000 Cycles	40	40	H18, 1000g; ASTM D3389 B
Tensile Set	18 %	18 %	200% elongation; ASTM D412

Thermal Properties	Metric	English	Comments
Melting Point	140 °C	284 °F	DSC
	150 °C	302 °F	Kolfer
Glass Transition Temp, Tg	-45.0 °C	-49.0 °F	DSC

Optical Properties	Metric	English	Comments
Haze	1.0 %	1.0 %	pressed between glass; ASTM D1003

Processing Properties	Metric	English	Comments
Zone 1	177 °C	351 °F	Extrusion
Zone 2	182 °C	360 °F	Extrusion
Zone 3	188 °C	370 °F	Extrusion
Zone 4	193 °C	379 °F	Extrusion
Adapter Temperature	193 °C	379 °F	5, Extrusion
Die Temperature	193 °C	379 °F	6, Zone 1, Extrusion
	193 °C	379 °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	1.1%	24h, 23°C; ASTM D471

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