

Lubrizol ESTANE® 58219 Ether Based Thermoplastic Polyurethane

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

Material Notes:

Features: Excellent physical properties, hydrolysis resistance, low temperature performance and clarity. Wide processing window for extrusion. Uses: Blown and flat die/cast film extrusion, Injection and blow molding. 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-58219-Ether-Based-Thermoplastic-Polyurethane.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.14 g/cc	1.14 g/cc	ASTM D792
Maximum Moisture Content	0.020	0.020	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	89 - 95	89 - 95	ASTM D2240
	@Time 5.00 sec	@Time 0.00139 hour	
Tensile Strength	62.1 MPa	9010 psi	ASTM D412
Elongation at Break	450 %	450 %	ASTM D412
100% Modulus	0.00900 GPa	1.31 ksi	ASTM D412
300% Modulus	0.0229 GPa	3.32 ksi	ASTM D412
Tear Strength	29.8 kN/m	170 pli	16 %
			200% elongation; ASTM D412

Thermal Properties	Metric	English	Comments
Melting Point	140 °C	284 °F	DSC
	170 °C	338 °F	Kofler
Glass Transition Temp, Tg	-45.0 °C	-49.0 °F	DSC

Optical Properties	Metric	English	Comments
Haze	2.3 %	2.3 %	ASTM D1003

Processing Properties	Metric	English	Comments
Zone 1	177 °C	351 °F	Extrusion

Processing Properties	Metric	English	Comments
Zone 3	188 °C	370 °F	Extrusion
Zone 4	193 °C	379 °F	Extrusion
Adapter Temperature	199 °C	390 °F	Extrusion
Die Temperature	199 °C	390 °F	Zone 1, Extrusion
	199 °C	390 °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	0.5%	24h, 23°C; ASTM D471

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