

Lubrizol ESTANE® 58325 Ether Based Thermoplastic Polyurethane

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

Material Notes:

Features: High melt strength for thick sheet extrusion. Uses: Blown and Flat Die/Cast Extrusion, Tubing 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-58325-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 @Time 5.00 sec	82 - 88 @Time 0.00139 hour	ASTM D2240
Tensile Strength	51.7 MPa	7500 psi	ASTM D412
Elongation at Break	615 %	615 %	ASTM D412
100% Modulus	0.00550 GPa	0.798 ksi	ASTM D412
300% Modulus	0.00970 GPa	1.41 ksi	ASTM D412
Flexural Modulus	0.0277 GPa	4.02 ksi	ASTM D790
Tear Strength	24.5 kN/m	140 pli	Trouser; ASTM D470
Graves Tear Strength	78.9 kN/m	450 pli	Die C; ASTM D624
Taber Abrasion, mg/1000 Cycles	63	63	H18, 1000g; ASTM D3389 B
Tensile Set	10 %	10 %	200% elongation; ASTM D412

Thermal Properties	Metric	English	Comments
Melting Point	131 °C	268 °F	DSC
Glass Transition Temp, Tg	-44.0 °C	-47.2 °F	DSC

Processing Properties	Metric	English	Comments
Zone 1	183 °C	361 °F	Extrusion
Zone 2	188 °C	370 °F	Extrusion

Processing Properties	^{199 °C} Metric	^{390 °F} English	Comments
Zone 4	199 °C	390 °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	

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