

Lubrizol ESTANE® 58134 Ester Based Thermoplastic Polyurethane

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

Material Notes:

Features: Fast cycling, broad temperature performance, and durabilityUses: Injection Molding Available in Americas, Europe, Middle East, Africa, India and AsiaInformation provided by Lubrizol.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lubrizol-ESTANE-58134-Ester-Based-Thermoplastic-Polyurethane.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.22 g/cc	1.22 g/cc	ASTM D792
Maximum Moisture Content	0.020	0.020	
Linear Mold Shrinkage	0.0090 cm/cm	0.0090 in/in	flex bar, Injection
	0.013 cm/cm	0.013 in/in	disk, Injection

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	42 - 48 @Time 5.00 sec	42 - 48 @Time 0.00139 hour	ASTM D2240
Tensile Strength	40.0 MPa	5800 psi	ASTM D412
Elongation at Break	575 %	575 %	ASTM D412
100% Modulus	0.00900 GPa	1.31 ksi	ASTM D412
300% Modulus	0.0200 GPa	2.90 ksi	ASTM D412
Flexural Modulus	0.0593 GPa	8.60 ksi	ASTM D790
Tear Strength	36.8 kN/m	210 pli	Trouser; ASTM D470
Graves Tear Strength	128 kN/m	730 pli	Die C; ASTM D624
Taber Abrasion, mg/1000 Cycles	0.70	0.70	CS-17, 1000 g; ASTM D3389 B
Compression Set	35 % @Temperature 23.0 °C, Time 79200 sec	35 % @Temperature 73.4 °F, Time 22.0 hour	ASTM D395
	39 % @Temperature 70.0 °C, Time 79200 sec	39 % @Temperature 158 °F, Time 22.0 hour	ASTM D395

Thermal Properties	Metric	English	Comments
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Thermal Properties	Metric	English	Comments
Glass Transition Temp, Tg	-46.0 °C	-50.8 °F	DSC

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	204 °C	399 °F	Injection
Middle Barrel Temperature	210 °C	410 °F	Injection
Front Barrel Temperature	218 °C	424 °F	Injection
Nozzle Temperature	221 °C	430 °F	Injection
Melt Temperature	221 °C	430 °F	Injection
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	
Injection Pressure	10000 - 15000 MPa	1.45e+6 - 2.18e+6 psi	Injection
Hold Pressure	5000 - 10000 MPa	725000 - 1.45e+6 psi	Injection
Back Pressure	>= 50.0 MPa	>= 7250 psi	Injection
Screw Speed	60 - 100 rpm	60 - 100 rpm	Injection

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