

Lubrizol ESTANE® 58137 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 durability Use: Injection 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-58137-Ester-Based-Thermoplastic-Polyurethane.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.24 g/cc	1.24 g/cc	ASTM D792
Maximum Moisture Content	0.020	0.020	
Linear Mold Shrinkage	0.0080 cm/cm	0.0080 in/in	flex bar, Injection
	0.0090 cm/cm	0.0090 in/in	disk, Injection

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	62 - 68 @Time 5.00 sec	62 - 68 @Time 0.00139 hour	ASTM D2240
Tensile Strength	41.0 MPa	5950 psi	ASTM D412
Elongation at Break	430 %	430 %	ASTM D412
100% Modulus	0.0210 GPa	3.05 ksi	ASTM D412
300% Modulus	0.0310 GPa	4.50 ksi	ASTM D412
Flexural Modulus	0.372 GPa	54.0 ksi	ASTM D790
Tear Strength	50.8 kN/m	290 pli	ADM D470
Graves Tear Strength	210 kN/m	1200 pli	Die C; ASTM D624
Taber Abrasion, mg/1000 Cycles	19	19	CS-17, 1000g; ASTM D3389 B
Compression Set	42 % @Temperature 23.0 °C, Time 79200 sec	42 % @Temperature 73.4 °F, Time 22.0 hour	ASTM D395
	61 % @Temperature 70.0 °C, Time 79200 sec	61 % @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	-15.0 °C	5.00 °F	DSC

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	210 °C	410 °F	Injection
Middle Barrel Temperature	221 °C	430 °F	Injection
Front Barrel Temperature	229 °C	444 °F	Injection
Nozzle Temperature	232 °C	450 °F	Injection
Melt Temperature	232 °C	450 °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	
Hold Pressure	5000 - 10000 MPa	725000 - 1.45e+6 psi	Injection
Back Pressure	>= 50.0 MPa	>= 7250 psi	Injection
	10000 - 15000 MPa	1.45e+6 - 2.18e+6 psi	Injection
Screw Speed	60 - 100 rpm	60 - 100 rpm	Injection

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