

Lubrizol ESTANE® 58133 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-58133-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
	0.013 cm/cm	0.013 in/in	disk

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	52 - 58	52 - 58	ASTM D2240
	@Time 5.00 sec	@Time 0.00139 hour	
Tensile Strength	41.0 MPa	5950 psi	ASTM D412
Elongation at Break	500 %	500 %	ASTM D412
100% Modulus	0.0150 GPa	2.18 ksi	ASTM D412
300% Modulus	0.0270 GPa	3.92 ksi	ASTM D412
Flexural Modulus	0.159 GPa	23.0 ksi	ASTM D790
Tear Strength	42.1 kN/m	240 pli	Trouser; ASTM D470
Graves Tear Strength	158 kN/m	900 pli	Die C; ASTM D624
Taber Abrasion, mg/1000 Cycles	34	34	CS-17, 1000g; ASTM D3389 B
Compression Set	37 %	37 %	ASTM D395
	@Temperature 23.0 °C, Time 79200 sec	@Temperature 73.4 °F, Time 22.0 hour	
	49 %	49 %	ASTM D395
	@Temperature 70.0 °C, Time 79200 sec	@Temperature 158 °F, Time 22.0 hour	

Thermal Properties	Metric	English	Comments
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Thermal Properties	Metric	English	Comments
Glass Transition Temp, Tg	-30.0 °C	-22.0 °F	DSC

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	210 °C	410 °F	Injection
Middle Barrel Temperature	215 °C	419 °F	Injection
Front Barrel Temperature	224 °C	435 °F	Injection
Nozzle Temperature	229 °C	444 °F	Injection
Melt Temperature	229 °C	444 °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	68.9 - 103 MPa	10000 - 15000 psi	Injection
Hold Pressure	34.5 - 68.9 MPa	5000 - 10000 psi	Injection
Back Pressure	>= 0.345 MPa	>= 50.0 psi	Injection
Screw Speed	60 - 100 rpm	60 - 100 rpm	Injection

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