

Lubrizol ESTANE® 58132 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 MoldingAvailable 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-58132-Ester-Based-Thermoplastic-Polyurethane.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.21 g/cc	1.21 g/cc	ASTM D792
Maximum Moisture Content	0.020	0.020	
Linear Mold Shrinkage	0.0060 cm/cm	0.0060 in/in	flex bar
	0.0090 cm/cm	0.0090 in/in	disk

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	87 - 93	87 - 93	ASTM D2240
	@Time 5.00 sec	@Time 0.00139 hour	
Tensile Strength	33.0 MPa	4790 psi	ASTM D412
Elongation at Break	645 %	645 %	ASTM D412
100% Modulus	0.00700 GPa	1.02 ksi	ASTM D412
300% Modulus	0.0170 GPa	2.47 ksi	ASTM D412
Flexural Modulus	0.0386 GPa	5.60 ksi	ASTM D790
Tear Strength	29.8 kN/m	170 pli	Trouser; ASTM D470
Graves Tear Strength	116 kN/m	660 pli	Die C; ASTM D624
Taber Abrasion, mg/1000 Cycles	45	45	CS-17, 1000g; ASTM D3389 B

Thermal Properties	Metric	English	Comments
Melting Point	179 °C	354 °F	DSC
Glass Transition Temp, Tg	-47.0 °C	-52.6 °F	DSC

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	200 °C	392 °F	Injection

Processing Properties	Metric	English	Comments
Front Barrel Temperature	210 °C	410 °F	Injection
Nozzle Temperature	215 °C	419 °F	Injection
Melt Temperature	215 °C	419 °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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