

Lubrizol ESTANE® 58142 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-58142-Ester-Based-Thermoplastic-Polyurethane.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.23 g/cc	1.23 g/cc	ASTM D792
Maximum Moisture Content	0.020	0.020	
Linear Mold Shrinkage	0.0070 cm/cm	0.0070 in/in	flex bar, Injection
	0.0080 cm/cm	0.0080 in/in	disk, Injection

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	57 - 63 @Time 5.00 sec	57 - 63 @Time 0.00139 hour	ASTM D2240
Tensile Strength	38.0 MPa	5510 psi	ASTM D412
Elongation at Break	470 %	470 %	ASTM D412
100% Modulus	0.0190 GPa	2.76 ksi	ASTM D412
300% Modulus	0.0290 GPa	4.21 ksi	ASTM D412
Flexural Modulus	0.234 GPa	34.0 ksi	ASTM D790
Tear Strength	50.8 kN/m	290 pli	ASTM D470
Graves Tear Strength	193 kN/m	1100 pli	Die C; ASTM D624
Taber Abrasion, mg/1000 Cycles	14.7	14.7	CS-17, 1000g; ASTM D3389 B
Compression Set	34 % @Temperature 23.0 °C, Time 79200 sec	34 % @Temperature 73.4 °F, Time 22.0 hour	ASTM D395
	53 % @Temperature 70.0 °C, Time 79200 sec	53 % @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	-24.0 °C	-11.2 °F	DSC

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	210 °C	410 °F	Injection
	224 °C	435 °F	Injection
Middle Barrel Temperature	215 °C	419 °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

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China