

Lubrizol Estaloc® 59020 Reinforced Thermoplastic Polyurethane

Category : Polymer , Thermoplastic , Polyurethane, TP , Thermoplastic Polyurethane (TPUR), Polyester Grade

Material Notes:

Type: Estaloc® 59020 RETPU is a polyester-type reinforced engineered thermoplastic polyurethane (RETPU). Features: Fast cycling, dimensional stability, durability, aesthetics, low temperature impact. Uses: Injection molding. Availability: Americas and Asia. Information Provided by The Lubrizol Corporation

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lubrizol-Estaloc-59020-Reinforced-Thermoplastic-Polyurethane.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.44 g/cc	1.44 g/cc	ASTM D792
Maximum Moisture Content	0.020	0.020	
Linear Mold Shrinkage	0.00070 cm/cm	0.00070 in/in	flex bar; ASTM D955
	0.0020 cm/cm	0.0020 in/in	disc; ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	55 - 61 @Time 5.00 sec	55 - 61 @Time 0.00139 hour	ASTM D2240
Tensile Strength, Ultimate	28.0 MPa	4060 psi	ASTM D638
Elongation at Break	50 %	50 %	ASTM D638
Tensile Modulus	0.620 GPa	89.9 ksi	ASTM D638
Flexural Strength	19.0 MPa	2760 psi	ASTM D790
Flexural Modulus	0.570 GPa	82.7 ksi	ASTM D790
Izod Impact, Notched	0.850 J/cm @Temperature -40.0 °C	1.59 ft-lb/in @Temperature -40.0 °F	ASTM D256
	6.40 J/cm @Temperature 23.0 °C	12.0 ft-lb/in @Temperature 73.4 °F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	51.0 °C	124 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	71.0 °C	160 °F	ASTM D648

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	213 °C	415 °F	
Middle Barrel Temperature	218 °C	424 °F	
Front Barrel Temperature	218 °C	424 °F	
Nozzle Temperature	221 °C	430 °F	
Melt Temperature	227 °C	441 °F	
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	69.0 - 103 MPa	10000 - 14900 psi	
Hold Pressure	35.0 - 69.0 MPa	5080 - 10000 psi	
Back Pressure	0.345 MPa	50.0 psi	
Screw Speed	30 - 80 rpm	30 - 80 rpm	

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