

Lubrizol ESTALOC® 59010 Polyester-Type, Reinforced Engineering Thermoplastic Polyurethane

Category : Polymer , Thermoplastic , Elastomer, TPE , Polyurethane, TP , Thermoplastic Polyurethane, Elastomer, Glass Filled

Material Notes:

Features: Fast Cycling, Dimensional Stability, Durability, Aesthetics, Low Temperature Impact
 Uses: Injection Molding
 Availability: Americas and Asia
 Information provided by Lubrizol

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lubrizol-ESTALOC-59010-Polyester-Type-Reinforced-Engineering-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	average flow and against flow, 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	28.0 MPa	4060 psi	ASTM D638
Elongation at Break	50 %	50 %	ASTM D638
Tensile Modulus	0.621 GPa	90.0 ksi	ASTM D638
Flexural Strength	19.0 MPa	2760 psi	ASTM D790
Flexural Modulus	0.572 GPa	83.0 ksi	ASTM D790
Izod Impact, Notched	6.41 J/cm	12.0 ft-lb/in	ASTM D256
	0.854 J/cm @Temperature -40.0 °C	1.60 ft-lb/in @Temperature -40.0 °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	Extrusion
Middle Barrel Temperature	218 °C	424 °F	Extrusion
Front Barrel Temperature	218 °C	424 °F	Extrusion
Nozzle Temperature	221 °C	430 °F	Extrusion
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	Extrusion
Hold Pressure	35.0 - 69.0 MPa	5080 - 10000 psi	Extrusion
Back Pressure	0.345 MPa	50.0 psi	Extrusion
Screw Speed	30 - 80 rpm	30 - 80 rpm	Extrusion

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