

Lubrizol ESTALOC® 59600 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, Europe, Middle East, Africa, India and Asia
Information provided by Lubrizol

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lubrizol-ESTALOC-59600-Polyester-Type-Reinforced-Engineering-Thermoplastic-Polyurethane.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.66 g/cc	1.66 g/cc	ASTM D792
Filler Content	50 %	50 %	Glass Fiber
Maximum Moisture Content	0.020	0.020	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	77 - 83	77 - 83	ASTM D2240
	@Time 5.00 sec	@Time 0.00139 hour	
Tensile Strength	96.0 MPa	13900 psi	ASTM D638
Elongation at Break	13 %	13 %	ASTM D638
Tensile Modulus	5.50 GPa	797 ksi	ASTM D638
Flexural Modulus	4.50 GPa	652 ksi	ASTM D790
Izod Impact, Notched	4.27 J/cm	8.00 ft-lb/in	ASTM D256
	1.82 J/cm @Temperature -40.0 °C	3.40 ft-lb/in @Temperature -40.0 °F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	118 °C	245 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	78.9 °C	174 °F	ASTM D648

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	216 °C	421 °F	
Middle Barrel Temperature	227 °C	441 °F	

Processing Properties	Metric	English	Comments
Nozzle Temperature	243 °C	469 °F	
Melt Temperature	243 °C	469 °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	50.0 MPa	7250 psi	
Screw Speed	30 - 80 rpm	30 - 80 rpm	

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