

Lubrizol ESTALOC® 59300 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 ImpactUses: Injection MoldingAvailability: Americas, Europe, Middle East, Africa, India and AsiaInformation provided by Lubrizol

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lubrizol-ESTALOC-59300-Polyester-Type-Reinforced-Engineering-Thermoplastic-Polyurethane.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.45 g/cc	1.45 g/cc	ASTM D792
Filler Content	30 %	30 %	Glass Fiber
Maximum Moisture Content	0.020	0.020	
Linear Mold Shrinkage	0.00040 cm/cm	0.00040 in/in	flex bar; ASTM D955
	0.0010 cm/cm	0.0010 in/in	average flow and against flow, disc; ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	72 - 78	72 - 78	ASTM D2240
	@Time 5.00 sec	@Time 0.00139 hour	
Tensile Strength	83.0 MPa	12000 psi	ASTM D638
Elongation at Break	20 %	20 %	ASTM D638
Tensile Modulus	3.65 GPa	530 ksi	ASTM D638
Flexural Strength	90.0 MPa	13100 psi	ASTM D790
Flexural Modulus	2.90 GPa	420 ksi	ASTM D790
Izod Impact, Notched	4.27 J/cm	8.00 ft-lb/in	ASTM D256
	1.28 J/cm	2.40 ft-lb/in	ASTM D256
	@Temperature -40.0 °C	@Temperature -40.0 °F	

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	210 °C	410 °F	
Middle Barrel Temperature	221 °C	430 °F	
Front Barrel Temperature	224 °C	435 °F	

Processing Properties	Metric	English	Comments
Nozzle Temperature	232 °C	450 °F	
Melt Temperature	232 °C	450 °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	

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