

Lubrizol ESTALOC® 60155 Polyester-Type, Reinforced Engineering Thermoplastic Polyurethane

Category : Polymer , Thermoplastic , Elastomer, TPE , Polyurethane, TP , Thermoplastic Polyurethane, Elastomer, Polyester Grade

Material Notes:

Features: Fast Cycling, Dimensional Stability, Durability, Aesthetics, Low Temperature ImpactUses: Injection MoldingAvailability: Americas and AsiaInformation provided by Lubrizol

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lubrizol-ESTALOC-60155-Polyester-Type-Reinforced-Engineering-Thermoplastic-Polyurethane.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.32 g/cc	1.32 g/cc	ASTM D792
Maximum Moisture Content	0.020	0.020	
Linear Mold Shrinkage	0.0030 cm/cm	0.0030 in/in	flex bar; ASTM D955
	0.0040 cm/cm	0.0040 in/in	average flow and against flow, disc; ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	63 - 69 @Time 5.00 sec	63 - 69 @Time 0.00139 hour	ASTM D2240
Elongation at Break	400 %	400 %	ASTM D638
Tensile Modulus	0.552 GPa	80.0 ksi	ASTM D638
Flexural Strength	19.0 MPa	2760 psi	ASTM D790
Flexural Modulus	0.552 GPa	80.0 ksi	ASTM D790
Izod Impact, Notched	8.54 J/cm	16.0 ft-lb/in	ASTM D256
	0.267 J/cm @Temperature -40.0 °C	0.500 ft-lb/in @Temperature -40.0 °F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	55.0 °C	131 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	42.8 °C	109 °F	ASTM D648

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	213 °C	415 °F	

Processing Properties	Metric	English	Comments
Front Barrel Temperature	218 °C	424 °F	
Nozzle Temperature	221 °C	430 °F	
Melt Temperature	221 °C	430 °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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