

Lubrizol Isoplast® 101LGF60BLK Engineering Thermoplastic Polyurethane Resin

Category : Polymer , Thermoplastic , Polyurethane, TP , Thermoplastic Polyurethane (TPUR), Glass Fiber Reinforced

Material Notes:

Available in Americas, Europe, Middle East, Africa, India and Asia
Data provided by Lubrizol
Lubrizol acquired the Isoplast product line from Dow in 2009.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lubrizol-Isoplast-101LGF60BLK-Engineering-Thermoplastic-Polyurethane-Resin.php

Physical Properties	Metric	English	Comments
Density	1.71 g/cc	0.0618 lb/in ³	ASTM D792
Linear Mold Shrinkage	0.0010 - 0.0030 cm/cm	0.0010 - 0.0030 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	179 MPa	26000 psi	ASTM D638
Tensile Strength, Yield	179 MPa	26000 psi	ASTM D638
Elongation at Break	1.6 %	1.6 %	ASTM D638
Elongation at Yield	1.6 %	1.6 %	ASTM D638
Tensile Modulus	16.0 GPa	2320 ksi	ASTM D638
Flexural Strength	317 MPa	46000 psi	ASTM D790
Flexural Modulus	14.0 GPa	2030 ksi	ASTM D790
Izod Impact, Unnotched	6.41 J/cm @Thickness 3.20 mm, Temperature 23.0 °C	12.0 ft-lb/in @Thickness 0.126 in, Temperature 73.4 °F	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	11.0 µm/m-°C @Temperature 20.0 °C	6.11 µin/in-°F @Temperature 68.0 °F	ASTM D 696
Deflection Temperature at 1.8 MPa (264 psi)	127 °C	261 °F	Unannealed; ASTM D648
	127 °C	261 °F	Annealed; ASTM D648
Vicat Softening Point	186 °C	367 °F	ASTM D1525

Processing Properties	Metric	English	Comments
Melt Temperature	240 - 260 °C	464 - 500 °F	
Mold Temperature	65.0 - 90.0 °C	149 - 194 °F	
Drying Temperature	80.0 - 100 °C	176 - 212 °F	

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