

Lubrizol Isoplast® 101LGF40NAT 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-101LGF40NAT-Engineering-Thermoplastic-Polyurethane-Resin.php

Physical Properties	Metric	English	Comments
Density	1.51 g/cc	0.0546 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	186 MPa	27000 psi	ASTM D638
Tensile Strength, Yield	186 MPa	27000 psi	ASTM D638
Elongation at Break	2.0 %	2.0 %	ASTM D638
Elongation at Yield	2.0 %	2.0 %	ASTM D638
Tensile Modulus	12.0 GPa	1740 ksi	ASTM D638
Flexural Strength	310 MPa	45000 psi	ASTM D790
Flexural Modulus	10.0 GPa	1450 ksi	ASTM D790
Izod Impact, Unnotched	4.27 J/cm	8.00 ft-lb/in	ASTM D256
	@Thickness 3.20 mm, Temperature 23.0 °C	@Thickness 0.126 in, Temperature 73.4 °F	
	4.27 J/cm	8.00 ft-lb/in	ASTM D256
	@Thickness 3.20 mm, Temperature -40.0 °C	@Thickness 0.126 in, Temperature -40.0 °F	
Dart Drop, Total Energy	17.0 J	12.5 ft-lb	ASTM D3763
	@Temperature -29.0 °C	@Temperature -20.2 °F	
	31.0 J	22.9 ft-lb	ASTM D3763
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
	14.0 µm/m-°C	7.78 µin/in-°F	

<small>CTE linear</small> Thermal Properties	Metric @ Temperature 20.0 °C	English @ Temperature 68.0 °F	ASTM D696 Comments
Deflection Temperature at 1.8 MPa (264 psi)	93.0 °C	199 °F	Annealed; ASTM D648
	99.0 °C	210 °F	Unannealed; 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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