

Lubrizol Isoplast® 202LGF40 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-202LGF40-Engineering-Thermoplastic-Polyurethane-Resin.php

Physical Properties	Metric	English	Comments
Density	1.50 g/cc	0.0542 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	1.8 %	1.8 %	ASTM D638
Elongation at Yield	1.8 %	1.8 %	ASTM D638
Tensile Modulus	12.0 GPa	1740 ksi	ASTM D638
Flexural Strength	338 MPa	49000 psi	ASTM D790
Flexural Modulus	10.0 GPa	1450 ksi	ASTM D790
Izod Impact, Unnotched	2.67 J/cm @Thickness 3.20 mm, Temperature 23.0 °C	5.00 ft-lb/in @Thickness 0.126 in, Temperature 73.4 °F	ASTM D256
Dart Drop, Total Energy	14.0 J @Temperature -29.0 °C	10.3 ft-lb @Temperature -20.2 °F	ASTM D3763
	17.0 J @Temperature 23.0 °C	12.5 ft-lb @Temperature 73.4 °F	ASTM D3763

Thermal Properties	Metric	English	Comments
CTE, linear	70.0 µm/m-°C @Temperature 20.0 °C	38.9 µin/in-°F @Temperature 68.0 °F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	166 °C	331 °F	Unannealed; ASTM D648

Deflection Temperature at 1.8 MPa (104 psi) Thermal Properties	144 °C Metric	291 °F English	Unannealed; ASTM D648 Comments
Glass Transition Temp, Tg	138 °C	280 °F	ASTM D3418

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

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