

Lubrizol ISOPLAST™ 202EZ Engineering Thermoplastic Polyurethane Resin

Category : Polymer , Thermoplastic , Polyurethane, TP

Material Notes:

NSF Standard 61 Certified Available in Americas, Europe, Middle East, Africa, India and Asia Information 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-202EZ-Engineering-Thermoplastic-Polyurethane-Resin.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.20 g/cc	1.20 g/cc	ASTM D792
Linear Mold Shrinkage	0.0040 - 0.0060 cm/cm	0.0040 - 0.0060 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	62.1 MPa	9000 psi	ASTM D638
Tensile Strength, Yield	68.9 MPa	10000 psi	ASTM D638
Elongation at Break	90 %	90 %	ASTM D638
Elongation at Yield	9.0 %	9.0 %	ASTM D638
Tensile Modulus	1.79 GPa	260 ksi	ASTM D638
Flexural Strength	89.6 MPa	13000 psi	ASTM D790
Flexural Modulus	2.21 GPa	320 ksi	ASTM D790
Izod Impact, Notched	1.60 J/cm	3.00 ft-lb/in	ASTM D256
	@Thickness 3.17 mm, Temperature -40.0 °C	@Thickness 0.125 in, Temperature -40.0 °F	
	5.34 J/cm	10.0 ft-lb/in	ASTM D256
	@Thickness 3.17 mm, Temperature 22.8 °C	@Thickness 0.125 in, Temperature 73.0 °F	
Dart Drop, Total Energy	34.0 J	25.1 ft-lb	ASTM D3763
	@Temperature -28.9 °C	@Temperature -20.0 °F	
	45.0 J	33.2 ft-lb	ASTM D3763
	@Temperature 22.8 °C	@Temperature 73.0 °F	

Thermal Properties	Metric	English	Comments
CTE, linear	66.6 µm/m-°C	37.0 µin/in-°F	ASTM D696

Thermal Properties	@Temperature 20.0 °C Metric	@Temperature 68.0 °F English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	127 °C	260 °F	unannealed; ASTM D648
	143 °C	290 °F	annealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	116 °C	240 °F	unannealed; ASTM D648
	138 °C	280 °F	annealed; ASTM D648
Vicat Softening Point	144 °C	292 °F	ASTM D1525

Processing Properties	Metric	English	Comments
Melt Temperature	238 - 260 °C	460 - 500 °F	
Mold Temperature	93.0 - 121 °C	199 - 250 °F	
Drying Temperature	127 - 138 °C	261 - 280 °F	

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