Dow Isoplast® 2532 Polyurethane (PUR-RT), Clear Amorphous Polymer (discontinued **)

Category : Polymer , Thermoplastic , Polyurethane, TP

Material Notes:

ISOPLAST® 2532 resin is a clear amorphous polymer with the chemical resistance of crystalline resins specially designed for medical applications. Its outstanding properties include clarity, excellent chemical resistance, toughness and high heat.Data provided by Dow Chemical.Lubrizol acquired the Isoplast product line from Dow in 2009.

Order this product through the following link:
http://www.lookpolymers.com/polymer_Dow-Isoplast-2532-Polyurethane-PUR-RT-Clear-Amorphous-Polymer-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.20 g/cc	0.0434 lb/in³	ASTM Data

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	69.0 MPa	10000 psi	ASTM Data
Tensile Strength, Yield	82.7 MPa	12000 psi	ASTM Data
Elongation at Break	30 %	30 %	ASTM Data
Elongation at Yield	6.8 %	6.8 %	ISO Data
Tensile Modulus	1.93 GPa	280 ksi	ASTM Data
Izod Impact, Notched	1.07 J/cm	2.00 ft-lb/in	ASTM Data
Charpy Impact Unnotched	NB	NB	ISO Data
	NB	NB	ISO Data, Low Temp
Charpy Impact, Notched	0.500 J/cm²	2.38 ft-lb/in²	ISO Data, Low Temp
	1.10 J/cm²	5.24 ft-lb/in²	ISO Data
Impact Test	67.8 J @Temperature 23.0 °C	50.0 ft-lb @Temperature 73.4 °F	Instrumented Dart Total Energy

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	57.6 µm/m-°C @Temperature 20.0 °C	32.0 µin/in-°F @Temperature 68.0 °F	ASTM data
Deflection Temperature at 0.46 MPa (66 psi)	132 °C	270 °F	Unannealed; ASTM Data
	143 °C	289 °F	Annealed; ASTM Data

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	110 °C	230 °F	Compression molded; 138°C (280°F) annealed; ASTM Data
Vicat Softening Point	147 °C	297 °F	

Optical Properties	Metric	English	Comments
Transmission, Visible	88 %	88 %	

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