

Dow Isoplast® 302 Polyurethane (PUR-RT), Clear Amorphous Polymer (discontinued **)

Category : Polymer , Thermoplastic , Polyurethane, TP

Material Notes:

ISOPLAST® 302 resin is a clear amorphous polymer with the chemical resistance of crystalline resins. 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-302-Polyurethane-PUR-RT-Clear-Amorphous-Polymer-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.20 g/cc	0.0434 lb/in ³	ASTM Data
Melt Density	1.14 g/cc	0.0412 lb/in ³	Melt density
Linear Mold Shrinkage	0.0050 cm/cm	0.0050 in/in	

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/cm ²	2.38 ft-lb/in ²	ISO Data, Low Temp
	1.10 J/cm ²	5.24 ft-lb/in ²	ISO Data
Impact Test	67.8 J	50.0 ft-lb	Instrumented Dart Total Energy
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	57.6 µm/m-°C	32.0 µin/in-°F	ASTM data
	@Temperature 20.0 °C	@Temperature 68.0 °F	

Specific Heat Capacity Thermal Properties	2.25 J/g-°C Metric	0.538 BTU/lb-°F English	Comments
Thermal Conductivity	0.230 W/m-K	1.60 BTU-in/hr-ft ² -°F	
Deflection Temperature at 0.46 MPa (66 psi)	132 °C	270 °F	Unannealed; ASTM Data
	143 °C	289 °F	Annealed; ASTM Data
Deflection Temperature at 1.8 MPa (264 psi)	116 °C	241 °F	Unannealed; 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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