

## Dow Isoplast® 202 Polyurethane (PUR-RT), Impact Modified (discontinued \*\*)

Category : Polymer , Thermoplastic , Polyurethane, TP

### Material Notes:

ISOPLAST® 202 resin is an impact modified amorphous polymer with the chemical resistance of crystalline resins. Its outstanding properties include excellent chemical resistance, high heat, low moisture sensitivity, toughness, and dimensional stability. 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-202-Polyurethane-PUR-RT-Impact-Modified-nbspdiscontinued-.php](http://www.lookpolymers.com/polymer_Dow-Isoplast-202-Polyurethane-PUR-RT-Impact-Modified-nbspdiscontinued-.php)

Physical Properties	Metric	English	Comments
Density	1.20 g/cc	0.0434 lb/in <sup>3</sup>	ASTM Data
Linear Mold Shrinkage	0.0050 cm/cm	0.0050 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	62.1 MPa	9010 psi	ASTM Data
Tensile Strength, Yield	69.0 MPa	10000 psi	ASTM Data
Elongation at Break	90 %	90 %	ASTM Data
Elongation at Yield	8.5 %	8.5 %	ISO Data
Tensile Modulus	1.79 GPa	260 ksi	ASTM Data
Izod Impact, Notched	5.34 J/cm	10.0 ft-lb/in	ASTM Data
Charpy Impact Unnotched	NB	NB	ISO Data
	NB	NB	ISO Data, Low Temp
Charpy Impact, Notched	1.40 J/cm <sup>2</sup>	6.66 ft-lb/in <sup>2</sup>	ISO Data, Low Temp
	3.60 J/cm <sup>2</sup>	17.1 ft-lb/in <sup>2</sup>	ISO Data
Impact Test	45.2 J @Temperature 23.0 °C	33.3 ft-lb @Temperature 73.4 °F	Instrumented Dart Total Energy

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	66.6 µm/m-°C @Temperature 20.0 °C	37.0 µin/in-°F @Temperature 68.0 °F	ASTM data
Deflection Temperature at 0.46 MPa (66 psi)	127 °C	261 °F	Unannealed; ASTM Data
	143 °C	289 °F	Annealed; ASTM Data

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	116 °C	241 °F	Unannealed; 138°C (280°F) annealed; ASTM Data
Vicat Softening Point	144 °C	291 °F	

## Contact Songhan Plastic Technology Co.,Ltd.

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