

Dow Isoplast® 151 Polyurethane (PUR-RT), Impact Modified (discontinued **)

Category : Polymer , Thermoplastic , Polyurethane, TP

Material Notes:

ISOPLAST® 151 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-151-Polyurethane-PUR-RT-Impact-Modified-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.20 g/cc	0.0434 lb/in ³	ASTM Data
Water Absorption	0.17 %	0.17 %	
Linear Mold Shrinkage	0.0050 cm/cm	0.0050 in/in	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	120	120	
Tensile Strength, Ultimate	48.3 MPa	7010 psi	ASTM Data
Tensile Strength, Yield	57.9 MPa	8400 psi	ASTM Data
Elongation at Break	120 %	120 %	ASTM Data
Elongation at Yield	6.5 %	6.5 %	ISO Data
Tensile Modulus	1.59 GPa	231 ksi	ASTM Data
Izod Impact, Notched	5.87 J/cm	11.0 ft-lb/in	ASTM Data
Charpy Impact Unnotched	NB	NB	ISO Data
	NB	NB	ISO Data, Low Temp
Charpy Impact, Notched	1.20 J/cm ²	5.71 ft-lb/in ²	ISO Data, Low Temp
	6.70 J/cm ²	31.9 ft-lb/in ²	ISO Data
Impact Test	67.8 J	50.0 ft-lb	Instrumented Dart Total Energy
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	67.8 J	50.0 ft-lb	Instrumented Dart Total Energy
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
--------------------	--------	---------	----------

Thermal Properties	Metric $\text{m}^3/\text{m}^3\text{-}^\circ\text{C}$	English $\text{in}^3/\text{in}^3\text{-}^\circ\text{F}$	Comments
CTE, linear, Parallel to Flow	@Temperature 20.0 °C	@Temperature 68.0 °F	ISO data
Deflection Temperature at 0.46 MPa (66 psi)	98.9 °C	210 °F	Unannealed; ASTM Data
	110 °C	230 °F	Annealed; ASTM Data
Deflection Temperature at 1.8 MPa (264 psi)	85.6 °C	186 °F	Unannealed; 104°C (219°F) annealed; ASTM Data
Vicat Softening Point	117 °C	243 °F	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China