

Polymer Resources PPX-GP5 Modified PPO, General Purpose with HDT of 270 F (Unverified Data**)

Category : Polymer , Thermoplastic , Polyphenylene Ether/PPO , Polyphenylene Ether, Molded

Material Notes:

Process: Injection Molding Notes: All physical, mechanical and thermal testing conducted on 1/8-inch thick, un-pigmented, test samples.

Information provided by Polymer Resources Corporation.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polymer-Resources-PPX-GP5-Modified-PPO-General-Purpose-with-HDT-of-270-F-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.06 g/cc	0.0383 lb/in ³	ASTM D792
Linear Mold Shrinkage	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	ASTM D955
Melt Flow	2.0 - 7.0 g/10 min	2.0 - 7.0 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	62.1 MPa	9000 psi	ASTM D638
Tensile Strength, Yield	60.0 MPa	8700 psi	ASTM D638
Flexural Strength	97.9 MPa	14200 psi	ASTM D790
Flexural Modulus	2.38 GPa	345 ksi	ASTM D790
Izod Impact, Notched	2.14 J/cm	4.00 ft-lb/in	ASTM D256
Gardner Impact	>= 16.9 J	>= 12.5 ft-lb	ASTM D3029

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	132 °C	270 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	127 °C	260 °F	ASTM D648
Flammability, UL94	HB	HB	1/16 in
	HB	HB	1/8 in

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	260 - 304 °C	500 - 580 °F	
Middle Barrel Temperature	271 - 310 °C	520 - 590 °F	

Front Barrel Temperature Processing Properties	282 - 316 °C Metric	540 - 600 °F English	Comments
Melt Temperature	288 - 316 °C	550 - 600 °F	
Mold Temperature	65.6 - 98.9 °C	150 - 210 °F	
Drying Temperature	104 - 110 °C	220 - 230 °F	
Dry Time	3 - 4 hour	3 - 4 hour	

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