

Polymer Resources PPX-GP4-WR Modified PPO, Wear Resistant with HDT of 215 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-GP4-WR-Modified-PPO-Wear-Resistant-with-HDT-of-215-F-Unverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.10 g/cc	0.0397 lb/in ³	ASTM D792
Linear Mold Shrinkage	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	ASTM D955
Melt Flow	25 - 35 g/10 min	25 - 35 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	36.5 MPa	5300 psi	ASTM D638
Tensile Strength, Yield	36.5 MPa	5300 psi	ASTM D638
Flexural Strength	47.6 MPa	6900 psi	ASTM D790
Flexural Modulus	1.78 GPa	258 ksi	ASTM D790
Izod Impact, Notched	1.60 J/cm	3.00 ft-lb/in	ASTM D256
Gardner Impact	>= 14.1 J	>= 10.4 ft-lb	ASTM D3029

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	102 °C	215 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	96.1 °C	205 °F	ASTM D648
Flammability, UL94	HB	HB	1/16 in
	HB	HB	1/8 in

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	249 - 299 °C	480 - 570 °F	
Middle Barrel Temperature	260 - 304 °C	500 - 580 °F	

Front Barrel Temperature Processing Properties	271 - 310 °C Metric	520 - 590 °F English	Comments
Melt Temperature	288 - 316 °C	550 - 600 °F	
Mold Temperature	71.1 - 98.9 °C	160 - 210 °F	
Drying Temperature	104 - 110 °C	220 - 230 °F	
Dry Time	3 - 4 hour	3 - 4 hour	

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