

Polymer Resources PPX-FR6 Modified PPO, UL 94 V-0 with HDT of 300 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-FR6-Modified-PPO-UL-94-V-0-with-HDT-of-300-F-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.07 g/cc	0.0387 lb/in ³	ASTM D792
Linear Mold Shrinkage	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	ASTM D955
Melt Flow	1.0 - 3.0 g/10 min	1.0 - 3.0 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	70.3 MPa	10200 psi	ASTM D638
Tensile Strength, Yield	66.9 MPa	9700 psi	ASTM D638
Flexural Strength	98.6 MPa	14300 psi	ASTM D790
Flexural Modulus	2.34 GPa	340 ksi	ASTM D790
Izod Impact, Notched	4.27 J/cm	8.00 ft-lb/in	ASTM D256
Gardner Impact	>= 22.6 J	>= 16.7 ft-lb	ASTM D3029

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	149 °C	300 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	141 °C	285 °F	ASTM D648
Flammability, UL94	V-0	V-0	1/16 in
	V-0	V-0	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	293 - 316 °C	560 - 600 °F	
Mold Temperature	82.2 - 116 °C	180 - 240 °F	
Drying Temperature	104 - 110 °C	220 - 230 °F	
Dry Time	3 - 4 hour	3 - 4 hour	

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