

Polymer Resources PPX-FR4 Modified PPO, UL 94 V-1 with HDT of 185 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-FR4-Modified-PPO-UL-94-V-1-with-HDT-of-185-F-nbspUnverified-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	35 - 50 g/10 min	35 - 50 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	48.3 MPa	7000 psi	ASTM D638
Tensile Strength, Yield	46.9 MPa	6800 psi	ASTM D638
Flexural Strength	72.4 MPa	10500 psi	ASTM D790
Flexural Modulus	2.21 GPa	320 ksi	ASTM D790
Izod Impact, Notched	2.67 J/cm	5.00 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)	85.0 °C	185 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	76.7 °C	170 °F	ASTM D648
Flammability, UL94	V-1	V-1	1/8 in
	V-1	V-1	1/16 in

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	216 - 266 °C	420 - 510 °F	
Middle Barrel Temperature	227 - 271 °C	440 - 520 °F	

Front Barrel Temperature Processing Properties	238 - 277 °C Metric	460 - 530 °F English	Comments
Melt Temperature	246 - 274 °C	475 - 525 °F	
Mold Temperature	65.6 - 82.2 °C	150 - 180 °F	
Drying Temperature	76.7 - 82.2 °C	170 - 180 °F	
Dry Time	3 - 4 hour	3 - 4 hour	

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