

Polymer Resources PPX-FR1 Modified PPO, UL 94 V-0 with HDT of 190 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-FR1-Modified-PPO-UL-94-V-0-with-HDT-of-190-F-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.08 g/cc	0.0390 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 - 50 g/10 min	25 - 50 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	44.8 MPa	6500 psi	ASTM D638
Tensile Strength, Yield	41.4 MPa	6000 psi	ASTM D638
Flexural Strength	55.2 MPa	8000 psi	ASTM D790
Flexural Modulus	2.07 GPa	300 ksi	ASTM D790
Izod Impact, Notched	2.67 J/cm	5.00 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)	87.8 °C	190 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	82.2 °C	180 °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	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	54.4 - 76.7 °C	130 - 170 °F	
Drying Temperature	71.1 - 82.2 °C	160 - 180 °F	
Dry Time	3 - 4 hour	3 - 4 hour	

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