

Polymer Resources PPX-SF1 Modified PPO, Structural Foam Grade, Easy Flow (Unverified Data**)

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

Material Notes:

Process: Foam Molding Notes: All physical, mechanical and thermal testing conducted on 1/8-inch thick, un-pigmented, test samples. Foam grades tested with foamed parts with a 10% weight reduction relative to unfoamed parts. Information provided by Polymer Resources Corporation.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polymer-Resources-PPX-SF1-Modified-PPO-Structural-Foam-Grade-Easy-Flow-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.12 g/cc	0.0405 lb/in ³	ASTM D792
Linear Mold Shrinkage	0.0060 - 0.0090 cm/cm	0.0060 - 0.0090 in/in	ASTM D955
Melt Flow	30 - 50 g/10 min	30 - 50 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	29.0 MPa	4200 psi	ASTM D638
Tensile Strength, Yield	27.6 MPa	4000 psi	ASTM D638
Flexural Strength	51.7 MPa	7500 psi	ASTM D790
Flexural Modulus	2.07 GPa	300 ksi	ASTM D790
Izod Impact, Unnotched	2.14 J/cm	4.00 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	76.7 °C	170 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	71.1 °C	160 °F	ASTM D648
Flammability, UL94	V-0	V-0	1/16 in
	5VA	5VA	1/8 in.

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	232 - 260 °C	450 - 500 °F	
Middle Barrel Temperature	271 - 304 °C	520 - 580 °F	

Front Barrel Temperature Processing Properties	271 - 304 °C Metric	520 - 580 °F English	Comments
Melt Temperature	260 - 288 °C	500 - 550 °F	
Mold Temperature	37.8 - 82.2 °C	100 - 180 °F	
Drying Temperature	71.1 - 82.2 °C	160 - 180 °F	
Dry Time	3 - 4 hour	3 - 4 hour	

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