

Polymer Resources PPX-SF2 Modified-PPO, Structural Foam Grade, Flame Retardant

Category : Polymer , Thermoplastic , Polyphenylene Ether/PPO , Polyphenylene Ether, Heat Resistant

Material Notes:

Modified-Polyphenylene Oxide, Structural Foam Grade, Standard FlowFeatures: • Flame Retardant • Bromine Free • Chlorine Free • Self

ExtinguishingProcess: Foam MoldingNotes: 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-SF2-Modified-PPO-Structural-Foam-Grade-Flame-Retardant.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.09 g/cc	1.09 g/cc	ASTM D792
Linear Mold Shrinkage	0.0060 - 0.0090 cm/cm	0.0060 - 0.0090 in/in	ASTM D955
Melt Flow	25 - 45 g/10 min @Load 11.6 kg, Temperature 250 °C	25 - 45 g/10 min @Load 25.6 lb, Temperature 482 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	51.7 MPa	7500 psi	ASTM D638
Tensile Strength, Yield	52.4 MPa	7600 psi	ASTM D638
Flexural Strength	82.7 MPa	12000 psi	ASTM D790
Flexural Modulus	2.41 GPa	350 ksi	ASTM D790
Izod Impact, Notched	1.60 J/cm @Temperature 22.8 °C	3.00 ft-lb/in @Temperature 73.0 °F	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)	104 °C	220 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	98.9 °C	210 °F	ASTM D648
UL RTI, Electrical	65.0 °C @Thickness 3.00 mm	149 °F @Thickness 0.118 in	UL 746
	65.0 °C @Thickness 5.99 mm	149 °F @Thickness 0.236 in	UL 746

Thermal Properties	Metric	English	Comments
UL RTI, Mechanical with Impact	@Thickness 3.00 mm	@Thickness 0.118 in	UL 746
	65.0 °C	149 °F	UL 746
UL RTI, Mechanical without Impact	@Thickness 5.99 mm	@Thickness 0.236 in	UL 746
	65.0 °C	149 °F	UL 746
Flammability, UL94	@Thickness 3.00 mm	@Thickness 0.118 in	UL 746
	V-0	V-0	UL 746
	@Thickness 6.00 mm	@Thickness 0.236 in	
	V-0	V-0	

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	271 - 304 °C	520 - 580 °F	
Melt Temperature	271 - 304 °C	520 - 580 °F	
Mold Temperature	65.6 - 82.2 °C	150 - 180 °F	
Drying Temperature	71.1 - 82.2 °C	160 - 180 °F	
Dry Time	3.00 - 4.00 hour	3.00 - 4.00 hour	

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