

Polymer Resources PPX-SF1 Modified-PPO, Structural Foam Grade, Flame Retardant, Easy Flow

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

Material Notes:

Modified-Polyphenylene Oxide, Structural Foam Grade, Easy Flow Features: • Flame Retardant • Bromine Free • Chlorine Free • Self

Extinguishing Process: Foam 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-SF1-Modified-PPO-Structural-Foam-Grade-Flame-Retardant-Easy-Flow.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.12 g/cc	1.12 g/cc	ASTM D792
Linear Mold Shrinkage	0.0060 - 0.0090 cm/cm	0.0060 - 0.0090 in/in	ASTM D955
Melt Flow	25 - 50 g/10 min @Load 11.6 kg, Temperature 250 °C	25 - 50 g/10 min @Load 25.6 lb, Temperature 482 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	121	121	ASTM D785
Tensile Strength at Break	62.1 MPa	9000 psi	ASTM D638
Tensile Strength, Yield	63.4 MPa	9200 psi	ASTM D638
Flexural Strength	82.7 MPa	12000 psi	ASTM D790
Flexural Modulus	3.17 GPa	460 ksi	ASTM D790
Izod Impact, Notched	1.07 J/cm @Temperature 22.8 °C	2.00 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

Thermal Properties	^{65.0 °C} Metric	^{149 °F} English	Comments
	@Thickness 3.81 mm	@Thickness 0.150 in	
UL RTI, Mechanical with Impact	65.0 °C	149 °F	UL 746
	@Thickness 3.00 mm	@Thickness 0.118 in	
	65.0 °C	149 °F	UL 746
	@Thickness 3.81 mm	@Thickness 0.150 in	
UL RTI, Mechanical without Impact	65.0 °C	149 °F	UL 746
	@Thickness 3.00 mm	@Thickness 0.118 in	
	65.0 °C	149 °F	UL 746
	@Thickness 3.81 mm	@Thickness 0.150 in	
Flammability, UL94	V-0	V-0	
	@Thickness 3.00 mm	@Thickness 0.118 in	
	V-0 - 5VA	V-0 - 5VA	
	@Thickness 3.80 mm	@Thickness 0.150 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	271 - 304 °C	520 - 580 °F	
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	3.00 - 4.00 hour	3.00 - 4.00 hour	

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