

Polymer Resources PPX-FR2-[color]-EN Modified-PPO, V-1 Flame Retardant, Extrusion Grade

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

Material Notes:

Modified-Polyphenylene Oxide, V-1 Flame Retardant, 210F HDT, Extrusion Grade
Features: • Bromine Free • Chlorine Free
Process:

Extrusion
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-FR2-color-EN-Modified-PPO-V-1-Flame-Retardant-Extrusion-Grade.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.09 g/cc	1.09 g/cc	ASTM D792
Linear Mold Shrinkage	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	ASTM D955
Melt Flow	20 - 40 g/10 min @Load 11.6 kg, Temperature 250 °C	20 - 40 g/10 min @Load 25.6 lb, Temperature 482 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	115	115	ASTM D785
Tensile Strength at Break	49.0 MPa	7100 psi	ASTM D638
Tensile Strength, Yield	50.3 MPa	7300 psi	ASTM D638
Elongation at Break	35 %	35 %	ASTM D638
Flexural Strength	82.7 MPa	12000 psi	ASTM D790
Flexural Modulus	2.41 GPa	350 ksi	ASTM D790
Izod Impact, Notched	1.33 J/cm @Temperature -40.0 °C	2.50 ft-lb/in @Temperature -40.0 °F	ASTM D256
	2.67 J/cm @Temperature 22.8 °C	5.00 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)	98.9 °C	210 °F	ASTM D648
Deflection Temperature at 1.8 MPa			

(264 psi) Thermal Properties	93.3 °C Metric	200 °F English	ASTM D648 Comments
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
UL RTI, Mechanical with Impact	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
UL RTI, Mechanical without Impact	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
Flammability, UL94	V-1 @Thickness 1.70 mm	V-1 @Thickness 0.0669 in	
	V-1 @Thickness 3.00 mm	V-1 @Thickness 0.118 in	

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	>= 177 °C	>= 350 °F	
Middle Barrel Temperature	>= 193 °C	>= 380 °F	
Front Barrel Temperature	>= 193 °C	>= 380 °F	
Melt Temperature	199 - 227 °C	390 - 440 °F	
Drying Temperature	98.9 - 104 °C	210 - 220 °F	
Dry Time	3.00 - 4.00 hour	3.00 - 4.00 hour	

Descriptive Properties	Value	Comments
Vent	0.001	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215, Fengxian District, Shanghai City, China