

Polymer Resources PPX-GP3-[color]-EN Modified-PPO, Extrusion Grade

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

Material Notes:

Modified-Polyphenylene Oxide, Extrusion Grade, 235F HDTF
Features: • Hydrolytically Stable • Low to No Water Absorption
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-GP3-color-EN-Modified-PPO-Extrusion-Grade.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.05 g/cc	1.05 g/cc	ASTM D792
Linear Mold Shrinkage	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	ASTM D955
Melt Flow	12 - 18 g/10 min @Load 11.6 kg, Temperature 250 °C	12 - 18 g/10 min @Load 25.6 lb, Temperature 482 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	114	114	ASTM D785
Tensile Strength at Break	43.4 MPa	6300 psi	ASTM D638
Tensile Strength, Yield	46.9 MPa	6800 psi	ASTM D638
Elongation at Break	25 %	25 %	ASTM D638
Elongation at Yield	3.0 %	3.0 %	ASTM D638
Flexural Strength	72.4 MPa	10500 psi	ASTM D790
Flexural Modulus	2.21 GPa	320 ksi	ASTM D790
Izod Impact, Notched	1.33 J/cm @Temperature -30.0 °C	2.50 ft-lb/in @Temperature -22.0 °F	ASTM D256
	2.14 J/cm @Temperature 22.8 °C	4.00 ft-lb/in @Temperature 73.0 °F	ASTM D256
Izod Impact, Notched (ISO)	4.20 kJ/m ² @Temperature -30.0 °C	2.00 ft-lb/in ² @Temperature -22.0 °F	ISO 180/1A
	14.7 kJ/m ² @Temperature 22.8 °C	7.00 ft-lb/in ² @Temperature 73.0 °F	ISO 180/1A

Mechanical Properties _D	1.47 J/cm ² Metric	7.00 ft-lb/in ² English	Comments _A
	@Temperature 22.8 °C	@Temperature 73.0 °F	
Gardner Impact	16.9 J	12.5 ft-lb	ASTM D3029

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	113 °C	235 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	107 °C	225 °F	ASTM D648
Vicat Softening Point	127 °C	260 °F	120°C/h, 50 N; ASTM D1525
Flammability, UL94	HB	HB	
	@Thickness 1.59 mm	@Thickness 0.0626 in	
	HB	HB	
	@Thickness 3.17 mm	@Thickness 0.125 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+16 ohm-cm	1.00e+16 ohm-cm	ASTM D257

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	>= 216 °C	>= 420 °F	
Middle Barrel Temperature	>= 238 °C	>= 460 °F	
Front Barrel Temperature	>= 249 °C	>= 480 °F	
Melt Temperature	243 - 271 °C	470 - 520 °F	
Drying Temperature	104 - 110 °C	220 - 230 °F	
Dry Time	3.00 - 4.00 hour	3.00 - 4.00 hour	

Descriptive Properties	Value	Comments
Vent	0.0015	

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