

Polymer Resources PPX-GP3-[color]-HF Modified-PPO, General Purpose, High Flow

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

Material Notes:

Modified-Polyphenylene Oxide, General Purpose, High Flow, 235F HDTP
 Process: Injection 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-GP3-color-HF-Modified-PPO-General-Purpose-High-Flow.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 | 18 - 24 g/10 min @Load 11.6 kg, Temperature 250 °C | 18 - 24 g/10 min @Load 25.6 lb, Temperature 482 °F | ASTM D1238 |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|-----------------------------------|---------------------------------------|------------|
| Tensile Strength at Break | 43.4 MPa | 6300 psi | ASTM D638 |
| Tensile Strength, Yield | 46.9 MPa | 6800 psi | ASTM D638 |
| Flexural Strength | 72.4 MPa | 10500 psi | ASTM D790 |
| Flexural Modulus | 2.21 GPa | 320 ksi | ASTM D790 |
| Izod Impact, Notched | 2.14 J/cm @Temperature 22.8 °C | 4.00 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) | 113 °C | 235 °F | ASTM D648 |
| Deflection Temperature at 1.8 MPa (264 psi) | 107 °C | 225 °F | ASTM D648 |
| Flammability, UL94 | HB @Thickness 1.59 mm | HB @Thickness 0.0626 in | |
| | HB @Thickness 3.17 mm | HB @Thickness 0.125 in | |

| Processing Properties | Metric | English | Comments |
|---------------------------|------------------|------------------|----------|
| Rear Barrel Temperature | 243 - 293 °C | 470 - 560 °F | |
| Middle Barrel Temperature | 254 - 299 °C | 490 - 570 °F | |
| Front Barrel Temperature | 266 - 304 °C | 510 - 580 °F | |
| Melt Temperature | 274 - 302 °C | 525 - 575 °F | |
| Mold Temperature | 65.6 - 98.9 °C | 150 - 210 °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 | |

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