

Polymer Resources PPX-G20 Modified PPO, 20% Glass Reinforced (Unverified Data**)

Category : Polymer , Thermoplastic , Polyphenylene Ether/PPO , Polyphenylene Ether, 20% Glass Filled

Material Notes:

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-G20-Modified-PPO-20-Glass-Reinforced-nbspUnverified-Data.php

| Physical Properties | Metric | English | Comments |
|-----------------------|-----------------------|---------------------------|------------|
| Density | 1.20 g/cc | 0.0434 lb/in ³ | ASTM D792 |
| Linear Mold Shrinkage | 0.0020 - 0.0050 cm/cm | 0.0020 - 0.0050 in/in | ASTM D955 |
| Melt Flow | 1.0 - 4.0 g/10 min | 1.0 - 4.0 g/10 min | ASTM D1238 |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|------------|---------------|-----------|
| Tensile Strength at Break | 93.1 MPa | 13500 psi | ASTM D638 |
| Tensile Strength, Yield | 89.6 MPa | 13000 psi | ASTM D638 |
| Flexural Strength | 124 MPa | 18000 psi | ASTM D790 |
| Flexural Modulus | 4.83 GPa | 700 ksi | ASTM D790 |
| Izod Impact, Notched | 0.801 J/cm | 1.50 ft-lb/in | ASTM D256 |

| Thermal Properties | Metric | English | Comments |
|---|--------|---------|-----------|
| Deflection Temperature at 0.46 MPa (66 psi) | 138 °C | 280 °F | ASTM D648 |
| Deflection Temperature at 1.8 MPa (264 psi) | 132 °C | 270 °F | ASTM D648 |
| Flammability, UL94 | HB | HB | 1/16 in |
| | HB | HB | 1/8 in |

| Processing Properties | Metric | English | Comments |
|---------------------------|--------------|--------------|----------|
| Rear Barrel Temperature | 260 - 304 °C | 500 - 580 °F | |
| Middle Barrel Temperature | 271 - 310 °C | 520 - 590 °F | |
| Front Barrel Temperature | 282 - 316 °C | 540 - 600 °F | |
| Melt Temperature | 288 - 316 °C | 550 - 600 °F | |

| Processing Properties | Metric | English | Comments |
|-----------------------|--------------|--------------|----------|
| Mold Temperature | 110 - 104 °C | 160 - 220 °F | |
| Drying Temperature | 104 - 110 °C | 220 - 230 °F | |
| Dry Time | 3 - 4 hour | 3 - 4 hour | |

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