

## Polymer Resources PPX-FR5 Modified PPO, UL 94 V-0 with HDT of 225 F (Unverified Data\*\*)

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

### 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-FR5-Modified-PPO-UL-94-V-0-with-HDT-of-225-F-nbspUnverified-Data.php](http://www.lookpolymers.com/polymer_Polymer-Resources-PPX-FR5-Modified-PPO-UL-94-V-0-with-HDT-of-225-F-nbspUnverified-Data.php)

| Physical Properties   | Metric                | English                   | Comments   |
|-----------------------|-----------------------|---------------------------|------------|
| Density               | 1.09 g/cc             | 0.0394 lb/in <sup>3</sup> | ASTM D792  |
| Linear Mold Shrinkage | 0.0050 - 0.0070 cm/cm | 0.0050 - 0.0070 in/in     | ASTM D955  |
| Melt Flow             | 15 - 25 g/10 min      | 15 - 25 g/10 min          | ASTM D1238 |

| Mechanical Properties     | Metric    | English       | Comments   |
|---------------------------|-----------|---------------|------------|
| Tensile Strength at Break | 55.2 MPa  | 8000 psi      | ASTM D638  |
| Tensile Strength, Yield   | 53.1 MPa  | 7700 psi      | ASTM D638  |
| Flexural Strength         | 79.3 MPa  | 11500 psi     | ASTM D790  |
| Flexural Modulus          | 2.34 GPa  | 340 ksi       | ASTM D790  |
| Izod Impact, Notched      | 2.67 J/cm | 5.00 ft-lb/in | 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) | 107 °C | 225 °F  | ASTM D648 |
| Deflection Temperature at 1.8 MPa (264 psi) | 102 °C | 215 °F  | ASTM D648 |
| Flammability, UL94                          | V-0    | V-0     | 1/16 in   |
|                                             | V-0    | V-0     | 1/8 in    |

| Processing Properties     | Metric       | English      | Comments |
|---------------------------|--------------|--------------|----------|
| Rear Barrel Temperature   | 227 - 277 °C | 440 - 530 °F |          |
| Middle Barrel Temperature | 238 - 282 °C | 460 - 540 °F |          |

| Front Barrel Temperature<br>Processing Properties | 249 - 288 °C<br>Metric | 480 - 550 °F<br>English | Comments |
|---------------------------------------------------|------------------------|-------------------------|----------|
| Melt Temperature                                  | 260 - 288 °C           | 500 - 550 °F            |          |
| Mold Temperature                                  | 71.1 - 93.3 °C         | 160 - 200 °F            |          |
| Drying Temperature                                | 93.3 - 98.9 °C         | 200 - 210 °F            |          |
| Dry Time                                          | 3 - 4 hour             | 3 - 4 hour              |          |

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