

## Polymer Resources PPX-GP6 Modified PPO, General Purpose with HDT of 290 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-GP6-Modified-PPO-General-Purpose-with-HDT-of-290-F-nbspUnverified-Data.php](http://www.lookpolymers.com/polymer_Polymer-Resources-PPX-GP6-Modified-PPO-General-Purpose-with-HDT-of-290-F-nbspUnverified-Data.php)

| Physical Properties   | Metric                | English                   | Comments   |
|-----------------------|-----------------------|---------------------------|------------|
| Density               | 1.06 g/cc             | 0.0383 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             | 0.10 - 4.0 g/10 min   | 0.10 - 4.0 g/10 min       | ASTM D1238 |

| Mechanical Properties     | Metric    | English       | Comments   |
|---------------------------|-----------|---------------|------------|
| Tensile Strength at Break | 61.4 MPa  | 8900 psi      | ASTM D638  |
| Tensile Strength, Yield   | 58.6 MPa  | 8500 psi      | ASTM D638  |
| Flexural Strength         | 84.8 MPa  | 12300 psi     | ASTM D790  |
| Flexural Modulus          | 2.21 GPa  | 320 ksi       | ASTM D790  |
| Izod Impact, Notched      | 2.67 J/cm | 5.00 ft-lb/in | ASTM D256  |
| Gardner Impact            | >= 22.6 J | >= 16.7 ft-lb | ASTM D3029 |

| Thermal Properties                          | Metric | English | Comments  |
|---------------------------------------------|--------|---------|-----------|
| Deflection Temperature at 0.46 MPa (66 psi) | 143 °C | 290 °F  | ASTM D648 |
| Deflection Temperature at 1.8 MPa (264 psi) | 138 °C | 280 °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<br>Processing Properties | 282 - 316 °C<br>Metric | 540 - 600 °F<br>English | Comments |
|---------------------------------------------------|------------------------|-------------------------|----------|
| Melt Temperature                                  | 293 - 316 °C           | 560 - 600 °F            |          |
| Mold Temperature                                  | 76.7 - 98.9 °C         | 170 - 210 °F            |          |
| Drying Temperature                                | 104 - 110 °C           | 220 - 230 °F            |          |
| Dry Time                                          | 3 - 4 hour             | 3 - 4 hour              |          |

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