

# PRL PPX-GP5

Polyphenylene Ether + PS

Polymer Resources Ltd.

Message:

PRL PPX-GP5 is a Polyphenylene Ether + PS (PPE+PS) product. It can be processed by injection molding and is available in North America.

Characteristics include:

RoHS Compliant

Heat Resistant

| General Information                       |                        |           |             |
|-------------------------------------------|------------------------|-----------|-------------|
| Features                                  | General Purpose        |           |             |
|                                           | Medium Heat Resistance |           |             |
| RoHS Compliance                           | RoHS Compliant         |           |             |
| Forms                                     | Pellets                |           |             |
| Processing Method                         | Injection Molding      |           |             |
| Physical                                  | Nominal Value          | Unit      | Test Method |
| Specific Gravity                          | 1.06                   | g/cm³     | ASTM D792   |
| Melt Mass-Flow Rate (MFR) (250°C/11.6 kg) | 2.0 to 7.0             | g/10 min  | ASTM D1238  |
| Molding Shrinkage - Flow                  | 0.50 to 0.70           | %         | ASTM D955   |
| Mechanical                                | Nominal Value          | Unit      | Test Method |
| Tensile Strength                          |                        |           | ASTM D638   |
| Yield, 3.18 mm                            | 62.1                   | MPa       |             |
| Break, 3.18 mm                            | 60.0                   | MPa       |             |
| Tensile Elongation (Break, 3.18 mm)       | 35                     | %         | ASTM D638   |
| Flexural Modulus (3.18 mm)                | 2380                   | MPa       | ASTM D790   |
| Flexural Strength (Break, 3.18 mm)        | 97.9                   | MPa       | ASTM D790   |
| Impact                                    | Nominal Value          | Unit      | Test Method |
| Charpy Notched Impact Strength (23°C)     | 15                     | kJ/m²     | ISO 179/1   |
| Notched Izod Impact                       |                        |           | ASTM D256   |
| -40°C, 3.18 mm                            | 130                    | J/m       |             |
| 23°C, 3.18 mm                             | 210                    | J/m       |             |
| Gardner Impact (3.18 mm)                  | 16.9                   | J         | ASTM D3029  |
| Thermal                                   | Nominal Value          | Unit      | Test Method |
| Deflection Temperature Under Load         |                        |           | ASTM D648   |
| 0.45 MPa, Unannealed, 3.18 mm             | 132                    | °C        |             |
| 1.8 MPa, Unannealed, 3.18 mm              | 127                    | °C        |             |
| Electrical                                | Nominal Value          | Unit      | Test Method |
| Volume Resistivity                        | 1.0E+16                | ohms · cm | ASTM D257   |
| Injection                                 | Nominal Value          | Unit      |             |

|                        |              |    |
|------------------------|--------------|----|
| Drying Temperature     | 104 to 110   | °C |
| Drying Time            | 3.0 to 4.0   | hr |
| Drying Time, Maximum   | 8.0          | hr |
| Rear Temperature       | 260 to 304   | °C |
| Middle Temperature     | 271 to 310   | °C |
| Front Temperature      | 282 to 316   | °C |
| Processing (Melt) Temp | 288 to 316   | °C |
| Mold Temperature       | 65.6 to 98.9 | °C |

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