

RTP Company RTP 4005.3 FR A HS Polyphthalamide (PPA), Glass Fiber - Flame Retardant - Heat Stabilized

Category : Polymer , Thermoplastic , Polyphthalamide (PPA) , Polyphthalamide (PPA), 30% Glass Fiber Reinforced

Material Notes:

Order this product through the following link:

http://www.lookpolymers.com/polymer_RTP-Company-RTP-40053-FR-A-HS-Polyphthalamide-PPA-Glass-Fiber-Flame-Retardant-Heat-Stabilized.php

| Physical Properties | Metric | English | Comments |
|-----------------------|---|--|---------------------------|
| Specific Gravity | 1.75 g/cc | 1.75 g/cc | ASTM D 792 |
| Filler Content | 33 % | 33 % | Primary Additive |
| Water Absorption | 0.16 % | 0.16 % | 24 hrs @ 23°C; ASTM D 570 |
| Linear Mold Shrinkage | 0.0015 - 0.0030 cm/cm @Thickness 3.17 mm | 0.0015 - 0.0030 in/in @Thickness 0.125 in | ASTM D955 |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|----------------------------------|--------------------------------------|------------|
| Tensile Strength at Break | 152 MPa | 22000 psi | ASTM D 638 |
| Elongation at Break | 1.5 % | 1.5 % | ASTM D 638 |
| Tensile Modulus | 14.5 GPa | 2100 ksi | ASTM D 638 |
| Flexural Strength | 207 MPa | 30000 psi | ASTM D 790 |
| Flexural Modulus | 13.8 GPa | 2000 ksi | ASTM D 790 |
| Izod Impact, Notched | 0.801 J/cm @Thickness 3.17 mm | 1.50 ft-lb/in @Thickness 0.125 in | D 256 |
| Izod Impact, Unnotched | 5.34 J/cm @Thickness 3.17 mm | 10.0 ft-lb/in @Thickness 0.125 in | ASTM D4812 |

| Thermal Properties | Metric | English | Comments |
|---|-----------------------------|------------------------------|------------|
| Deflection Temperature at 1.8 MPa (264 psi) | 266 °C | 510 °F | ASTM D 648 |
| Flammability, UL94 | V-0 @Thickness 0.7937 mm | V-0 @Thickness 0.03125 in | |

| Electrical Properties | Metric | English | Comments |
|-----------------------|--------|---------|----------|
|-----------------------|--------|---------|----------|

| Volume Resistivity Electrical Properties | $\geq 1.00e+15$ ohm-cm Metric | $\geq 1.00e+15$ ohm-cm English | ASTM D 257 Comments |
|---|----------------------------------|-----------------------------------|------------------------|
| Processing Properties | Metric | English | Comments |
| Melt Temperature | 302 - 329 °C | 575 - 625 °F | |
| Mold Temperature | 135 - 163 °C | 275 - 325 °F | |
| Drying Temperature | 107 °C | 225 °F | |
| Dry Time | 4 - 6 hour | 4 - 6 hour | |
| Moisture Content | 0.050 % | 0.050 % | |
| Dew Point | -31.7 °C | -25.0 °F | |
| Injection Pressure | 68.9 - 124 MPa | 10000 - 18000 psi | |

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