

RTP Company RTP 4011 A (Hot Water Moldable) Polyphthalamide (PPA), Glass Fiber

Category : Polymer , Thermoplastic , Polyphthalamide (PPA)

Material Notes:

Order this product through the following link:

http://www.lookpolymers.com/polymer_RTP-Company-RTP-4011-A-Hot-Water-Moldable-Polyphthalamide-PPA-Glass-Fiber.php

| Physical Properties | Metric | English | Comments |
|-----------------------|---|--|------------------|
| Specific Gravity | 1.75 g/cc | 1.75 g/cc | ASTM D 792 |
| Filler Content | 60 % | 60 % | Primary Additive |
| Linear Mold Shrinkage | 0.0010 - 0.0020 cm/cm @Thickness 3.17 mm | 0.0010 - 0.0020 in/in @Thickness 0.125 in | ASTM D955 |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|---------------------------------|--------------------------------------|------------|
| Tensile Strength at Break | 221 MPa | 32000 psi | ASTM D 638 |
| Elongation at Break | 1.0 - 2.0 % | 1.0 - 2.0 % | ASTM D 638 |
| Tensile Modulus | 20.7 GPa | 3000 ksi | ASTM D 638 |
| Flexural Strength | 331 MPa | 48000 psi | ASTM D 790 |
| Flexural Modulus | 20.7 GPa | 3000 ksi | ASTM D 790 |
| Izod Impact, Notched | 1.07 J/cm @Thickness 3.17 mm | 2.00 ft-lb/in @Thickness 0.125 in | D 256 |
| Izod Impact, Unnotched | 9.08 J/cm @Thickness 3.17 mm | 17.0 ft-lb/in @Thickness 0.125 in | ASTM D4812 |

| Processing Properties | Metric | English | Comments |
|-----------------------|---------------|--------------|----------|
| Melt Temperature | 329 - 343 °C | 625 - 650 °F | |
| Mold Temperature | 65.6 - 163 °C | 150 - 325 °F | |
| Drying Temperature | 107 °C | 225 °F | |
| Dry Time | 4 - 6 hour | 4 - 6 hour | |
| Moisture Content | 0.10 % | 0.10 % | |
| Dew Point | -28.9 °C | -20.0 °F | |

| Injection Pressure Processing Properties | 68.9 - 103 MPa Metric | 10000 - 15000 psi English | Comments |
|---|--------------------------|------------------------------|----------|
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