

RTP Company RTP 205 TFE 15 SI Nylon 6/6 (PA), Glass Fiber - PTFE Lubricated - Silicone Lubricated

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Glass Fiber/PTFE Filled

Material Notes:

Order this product through the following link:

http://www.lookpolymers.com/polymer_RTP-Company-RTP-205-TFE-15-SI-Nylon-66-PA-Glass-Fiber-PTFE-Lubricated-Silicone-Lubricated.php

| Physical Properties | Metric | English | Comments |
|-----------------------|---|--|------------------|
| Specific Gravity | 1.50 g/cc | 1.50 g/cc | ASTM D 792 |
| Filler Content | 30 % | 30 % | Primary Additive |
| Linear Mold Shrinkage | 0.0020 - 0.0045 cm/cm @Thickness 3.17 mm | 0.0020 - 0.0045 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 | 2.5 - 3.5 % | 2.5 - 3.5 % | ASTM D 638 |
| Tensile Modulus | 10.0 GPa | 1450 ksi | ASTM D 638 |
| Flexural Strength | 231 MPa | 33500 psi | ASTM D 790 |
| Flexural Modulus | 9.31 GPa | 1350 ksi | ASTM D 790 |
| Izod Impact, Notched | 1.17 J/cm @Thickness 3.17 mm | 2.20 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 |

| Thermal Properties | Metric | English | Comments |
|---|--------------------------|----------------------------|------------|
| Deflection Temperature at 1.8 MPa (264 psi) | 243 °C | 470 °F | ASTM D 648 |
| Flammability, UL94 | HB @Thickness 1.59 mm | HB @Thickness 0.0625 in | |

| Electrical Properties | Metric | English | Comments |
|-----------------------|----------------------------|----------------------------|------------|
| Volume Resistivity | 1.00e+14 - 1.00e+16 ohm-cm | 1.00e+14 - 1.00e+16 ohm-cm | ASTM D 257 |

| Processing Properties | Metric | English | Comments |
|-----------------------|----------------|-------------------|----------|
| Melt Temperature | 277 - 299 °C | 530 - 570 °F | |
| Mold Temperature | 65.6 - 107 °C | 150 - 225 °F | |
| Drying Temperature | 79.4 °C | 175 °F | |
| Dry Time | 4 hour | 4 hour | |
| Moisture Content | 0.20 % | 0.20 % | |
| Dew Point | -17.8 °C | 0.000 °F | |
| Injection Pressure | 68.9 - 124 MPa | 10000 - 18000 psi | |

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