



**Product Data Sheet &
General Processing Conditions**

**RTP 3001
Polymethylpentene (PMP)
Glass Fiber**

PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS

| PERMANENCE | English | SI Metric | ASTM TEST |
|--|-----------------------|------------------|------------------|
| Primary Additive | 10 % | 10 % | |
| Specific Gravity | 0.88 | 0.88 | D 792 |
| Molding Shrinkage 1/8 in (3.2 mm) section | 0.0070 - 0.0100 in/in | 0.70 - 1.00 % | D 955 |

MECHANICAL

| | | | |
|--|----------------------------|-------------|--------|
| Impact Strength, Izod notched 1/8 in (3.2 mm) section | 1.0 ft-lbs/in | 53 J/m | D 256 |
| unnotched 1/8 in (3.2 mm) section | 3.0 ft-lbs/in | 160 J/m | D 4812 |
| Tensile Strength | 4500 psi | 31 MPa | D 638 |
| Tensile Elongation | 7.0 - 9.0 % | 7.0 - 9.0 % | D 638 |
| Tensile Modulus | 0.35 x 10 ⁶ psi | 2413 MPa | D 638 |
| Flexural Strength | 6500 psi | 45 MPa | D 790 |
| Flexural Modulus | 0.25 x 10 ⁶ psi | 1724 MPa | D 790 |

THERMAL

| | | | |
|--|--------------|-------------|-------|
| Ignition Resistance* Flammability** | HB @ 1/16 in | HB @ 1.5 mm | D 635 |
|--|--------------|-------------|-------|

PROPERTY NOTES

Data herein is typical and not to be construed as specifications.

Unless otherwise specified, all data listed is for natural or black colored materials. Pigments can affect properties.

* This rating is not intended to reflect hazards of this or any other material under actual fire conditions.

** Values per RTP Company testing.

GENERAL PROCESSING FOR INJECTION MOLDING

| | English | SI Metric |
|--------------------|-------------------|------------------|
| Injection Pressure | 10000 - 15000 psi | 69 - 103 MPa |
| Melt Temperature | 510 - 580 °F | 266 - 304 °C |
| Mold Temperature | 150 - 200 °F | 66 - 93 °C |
| Drying | 2 hrs @ 175 °F | 2 hrs @ 79 °C |