



**Product Data Sheet &  
General Processing Conditions**

**RTP 100  
Polypropylene (PP)  
Unfilled**

**PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS**

| <b>PERMANENCE</b>                            | <b>English</b>        | <b>SI Metric</b> | <b>ASTM TEST</b> |
|--|-----------------------|------------------|------------------|
| Specific Gravity                             | 0.91                  | 0.91             | D 792            |
| Melt Flow Rate<br>@ 230 °C, / 2.16 kg        | 4.00 g/10 min         | 4.00 g/10 min    | D 1238           |
| Molding Shrinkage<br>1/8 in (3.2 mm) section | 0.0150 - 0.0200 in/in | 1.50 - 2.00 %    | D 955            |

**MECHANICAL**

|  |                            |          |        |
|--|----------------------------|----------|--------|
| Impact Strength, Izod<br>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                        | 30.0 ft-lbs/in             | 1602 J/m | D 4812 |
| Tensile Strength   | 4700 psi                   | 32 MPa   | D 638  |
| Tensile Elongation                                       | > 10.0 %                   | > 10.0 % | D 638  |
| Tensile Modulus  | 0.25 x 10 <sup>6</sup> psi | 1724 MPa | D 638  |
| Flexural Strength  | 6000 psi                   | 41 MPa   | D 790  |
| Flexural Modulus   | 0.20 x 10 <sup>6</sup> psi | 1379 MPa | D 790  |

**THERMAL**

|  |              |             |       |
|--|--------------|-------------|-------|
| Deflection Temperature<br>@ 264 psi (1820 kPa) | 130 °F       | 54 °C       | D 648 |
| @ 66 psi (455 kPa)                             | 225 °F       | 107 °C      | D 648 |
| Ignition Resistance*<br>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**

|                    | <b>English</b>    | <b>SI Metric</b> |
|--------------------|-------------------|------------------|
| Injection Pressure | 10000 - 15000 psi | 69 - 103 MPa     |
| Melt Temperature   | 375 - 450 °F      | 191 - 232 °C     |
| Mold Temperature   | 90 - 150 °F       | 32 - 66 °C       |
| Drying             | 2 hrs @ 175 °F    | 2 hrs @ 79 °C    |