



**Product Data Sheet &
General Processing Conditions**

**RTP 100 HI
Polypropylene (PP)
High Impact**

PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS

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

MECHANICAL

| | | | |
|--|----------------------------|----------|--------|
| Impact Strength, Izod notched 1/8 in (3.2 mm) section | 14.0 ft-lbs/in | 747 J/m | D 256 |
| unnotched 1/8 in (3.2 mm) section | No Break | No Break | D 4812 |
| Tensile Strength | 3100 psi | 21 MPa | D 638 |
| Tensile Elongation | > 10.0 % | > 10.0 % | D 638 |
| Tensile Modulus | 0.15 x 10 ⁶ psi | 1034 MPa | D 638 |
| Flexural Strength | 4000 psi | 28 MPa | D 790 |
| Flexural Modulus | 0.13 x 10 ⁶ psi | 896 MPa | D 790 |

THERMAL

| | | | |
|--|--------------|-------------|-------|
| Deflection Temperature @ 264 psi (1820 kPa) | 110 °F | 43 °C | D 648 |
| @ 66 psi (455 kPa) | 175 °F | 79 °C | D 648 |
| 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 | 375 - 450 °F | 191 - 232 °C |
| Mold Temperature | 90 - 150 °F | 32 - 66 °C |
| Drying | 2 hrs @ 175 °F | 2 hrs @ 79 °C |