



**Product Data Sheet &  
General Processing Conditions**

**RTP 199 X 134502  
Polypropylene (PP)  
Glass Fiber  
High Impact  
Flame Retardant**

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

| <b>PERMANENCE</b>                            | <b>English</b>        | <b>SI Metric</b> | <b>ASTM TEST</b> |
|--|-----------------------|------------------|------------------|
| Specific Gravity                             | 1.54                  | 1.54             | D 792            |
| Molding Shrinkage<br>1/8 in (3.2 mm) section | 0.0010 - 0.0030 in/in | 0.10 - 0.30 %    | D 955            |

**MECHANICAL**

|  |                            |             |        |
|--|----------------------------|-------------|--------|
| Impact Strength, Izod<br>notched 1/8 in (3.2 mm) section | 4.0 ft-lbs/in              | 214 J/m     | D 256  |
| unnotched 1/8 in (3.2 mm) section                        | 13.0 ft-lbs/in             | 694 J/m     | D 4812 |
| Tensile Strength   | 6800 psi                   | 47 MPa      | D 638  |
| Tensile Elongation                                       | 4.0 - 8.0 %                | 4.0 - 8.0 % | D 638  |
| Tensile Modulus  | 0.80 x 10 <sup>6</sup> psi | 5516 MPa    | D 638  |
| Flexural Strength  | 12000 psi                  | 83 MPa      | D 790  |
| Flexural Modulus   | 0.75 x 10 <sup>6</sup> psi | 5171 MPa    | D 790  |

**THERMAL**

|  |               |              |        |
|--|---------------|--------------|--------|
| Deflection Temperature<br>@ 264 psi (1820 kPa) | 280 °F        | 138 °C       | D 648  |
| Ignition Resistance*                           |               |              |        |
| Flammability**                                 | V-0 @ 1/16 in | V-0 @ 1.5 mm | D 3801 |
| Flammability**                                 | 5VA @ 1/8 in  | 5VA @ 3.0 mm | D 5048 |

**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    |