



**Product Data Sheet &  
General Processing Conditions**

**RTP 1199 X 117594 A  
Polyethylene Terephthalate (PET)  
Glass Fiber  
Flame Retardant  
Halogen Free**

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

| <b>PERMANENCE</b>                            | <b>English</b>        | <b>SI Metric</b> | <b>ASTM TEST</b> |
|--|-----------------------|------------------|------------------|
| Primary Additive                             | 20 %                  | 20 %             |                  |
| Specific Gravity                             | 1.49                  | 1.49             | D 792            |
| Molding Shrinkage<br>1/8 in (3.2 mm) section | 0.0020 - 0.0040 in/in | 0.20 - 0.40 %    | D 955            |

**MECHANICAL**

|  |                            |             |        |
|--|----------------------------|-------------|--------|
| Impact Strength, Izod<br>notched 1/8 in (3.2 mm) section | 1.4 ft-lbs/in              | 75 J/m      | D 256  |
| unnotched 1/8 in (3.2 mm) section                        | 4.8 ft-lbs/in              | 256 J/m     | D 4812 |
| Tensile Strength   | 11400 psi                  | 79 MPa      | D 638  |
| Tensile Elongation                                       | 1.2 - 1.5 %                | 1.2 - 1.5 % | D 638  |
| Tensile Modulus  | 1.37 x 10 <sup>6</sup> psi | 9446 MPa    | D 638  |
| Flexural Strength  | 17400 psi                  | 120 MPa     | D 790  |
| Flexural Modulus   | 1.25 x 10 <sup>6</sup> psi | 8619 MPa    | D 790  |

**THERMAL**

|  |               |              |        |
|--|---------------|--------------|--------|
| Ignition Resistance*<br>Flammability** | V-0 @ 1/32 in | V-0 @ 0.8 mm | D 3801 |
|--|---------------|--------------|--------|

**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> |
|------------------|----------------|------------------|
| Mold Temperature | 275 - 300 °F   | 135 - 149 °C     |
| Drying           | 4 hrs @ 250 °F | 4 hrs @ 121 °C   |
| Moisture Content | 0.01 %         | 0.01 %           |
| Dew Point        | -40 °F         | -40 °C           |

**PROCESSING NOTES**

Desiccant Type Dryer Required.