



**Product Data Sheet &  
General Processing Conditions**

**RTP 1099 X 117578 A  
Polybutylene Terephthalate (PBT)  
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	30 %	30 %	
Specific Gravity	1.56	1.56	D 792
Molding Shrinkage 1/8 in (3.2 mm) section	0.0020 - 0.0040 in/in	0.20 - 0.40 %	D 955

**MECHANICAL**

Impact Strength, Izod 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	10.0 ft-lbs/in	534 J/m	D 4812
Tensile Strength	15500 psi	107 MPa	D 638
Tensile Elongation	1.0 - 3.0 %	1.0 - 3.0 %	D 638
Tensile Modulus	1.60 x 10 <sup>6</sup> psi	11032 MPa	D 638
Flexural Strength	24000 psi	165 MPa	D 790
Flexural Modulus	1.50 x 10 <sup>6</sup> psi	10342 MPa	D 790

**ELECTRICAL**

Dielectric Strength, S/T, in oil	500 VPM	19.7 kV/mm	D 149
Dielectric Constant, 1 MHz, Dry	3.7	3.7	D 150
Dissipation Factor, 1 MHz, Dry	0.0200	0.0200	D 150
Volume Resistivity	> 1E15 ohm.cm	> 1E15 ohm.cm	D 257

**THERMAL**

Deflection Temperature @ 264 psi (1820 kPa)	405 °F	207 °C	D 648
@ 66 psi (455 kPa)	410 °F	210 °C	D 648
Ignition Resistance* Flammability**	V-0 @ 1/32 in	V-0 @ 0.8 mm	D 3801
Coefficient of Linear Thermal Expansion Flow Direction	1.4 x 10 <sup>-5</sup> /°F	2.5 x 10 <sup>-5</sup> /°C	E 831
Transverse Direction	6.0 x 10 <sup>-5</sup> /°F	10.9 x 10 <sup>-5</sup> /°C	E 831

**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	460 - 520 °F	238 - 271 °C
Mold Temperature	175 - 225 °F	79 - 107 °C
Drying	4 hrs @ 250 °F	4 hrs @ 121 °C
Moisture Content	0.03 %	0.03 %
Dew Point	-20 °F	-29 °C