



**Product Data Sheet &  
General Processing Conditions**

**RTP 100 GB 20  
Polypropylene (PP)  
Glass Bead**

**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	1.03	1.03	D 792
Molding Shrinkage 1/8 in (3.2 mm) section	0.0130 - 0.0180 in/in	1.30 - 1.80 %	D 955

**MECHANICAL**

Impact Strength, Izod notched 1/8 in (3.2 mm) section	0.7 ft-lbs/in	37 J/m	D 256
unnotched 1/8 in (3.2 mm) section	10.0 ft-lbs/in	534 J/m	D 4812
Tensile Strength	3700 psi	26 MPa	D 638
Tensile Elongation	> 10.0 %	> 10.0 %	D 638
Tensile Modulus	0.20 x 10 <sup>6</sup> psi	1379 MPa	D 638
Flexural Strength	5400 psi	37 MPa	D 790
Flexural Modulus	0.20 x 10 <sup>6</sup> psi	1379 MPa	D 790

**ELECTRICAL**

Dielectric Constant, 1 MHz, Dry	2.3	2.3	D 150
Dissipation Factor, 1 MHz, Dry	< 0.0050	< 0.0050	D 150
Volume Resistivity	> 1E12 ohm.cm	> 1E12 ohm.cm	D 257

**THERMAL**

Deflection Temperature @ 264 psi (1820 kPa)	145 °F	63 °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**

	<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