




**Product Data Sheet &  
General Processing Conditions**

**RTP 102 HB  
Polypropylene (PP)  
Glass Fiber  
UL94 HB**



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

<b>PERMANENCE</b>	<b>English</b>	<b>SI Metric</b>	<b>ASTM TEST</b>
Primary Additive	15 %	15 %	
Specific Gravity	1.00	1.00	D 792
Melt Flow Rate @ 230 °C, / 2.16 kg	3.50 - 3.50 g/10 min	3.50 - 3.50 g/10 min	D 1238
Molding Shrinkage 1/8 in (3.2 mm) section	0.0030 - 0.0070 in/in	0.30 - 0.70 %	D 955
Water Absorption, 24 hrs @ 23°C	0.010 %	0.010 %	D 570

**MECHANICAL**

Impact Strength, Izod notched 1/8 in (3.2 mm) section	0.9 ft-lbs/in	48 J/m	D 256
unnotched 1/8 in (3.2 mm) section	7.0 ft-lbs/in	374 J/m	D 4812
Tensile Strength	6400 psi	44 MPa	D 638
Tensile Elongation	4.0 - 5.0 %	4.0 - 5.0 %	D 638
Tensile Modulus	0.50 x 10 <sup>6</sup> psi	3448 MPa	D 638
Flexural Strength	10000 psi	69 MPa	D 790
Flexural Modulus	0.40 x 10 <sup>6</sup> psi	2758 MPa	D 790

**ELECTRICAL**

Dielectric Strength, S/T, in oil	540 VPM	21.3 kV/mm	D 149
Dielectric Constant, 1 MHz, Dry	2.7	2.7	D 150
Dissipation Factor, 1 MHz, Dry	0.0010	0.0010	D 150
Volume Resistivity	> 1E15 ohm.cm	> 1E15 ohm.cm	D 257

**THERMAL**

Deflection Temperature @ 264 psi (1820 kPa)	275 °F	135 °C	D 648
@ 66 psi (455 kPa)	285 °F	141 °C	D 648
Ignition Resistance* Flammability	HB @ 1/16 in	HB @ 1.5 mm	UL94

**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.

**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