




**Product Data Sheet &  
General Processing Conditions**

**RTP 178 HB  
Polypropylene (PP)  
Glass Fiber  
Mineral  
Chemically Coupled  
UL94 HB**



RTP 178 HB has been developed to combine good physical properties and moldability for use in applications where straight glass or mineral filled polypropylenes will not suffice.

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

<b>PERMANENCE</b>	<b>English</b>	<b>SI Metric</b>	<b>ASTM TEST</b>
Specific Gravity	1.15	1.15	D 792
Molding Shrinkage 1/8 in (3.2 mm) section	0.0040 - 0.0080 in/in	0.40 - 0.80 %	D 955
Water Absorption, 24 hrs @ 23°C	0.030 %	0.030 %	D 570

**MECHANICAL**

Impact Strength, Izod notched 1/8 in (3.2 mm) section	1.0 ft-lbs/in	53 J/m	D 256
unnotched 1/8 in (3.2 mm) section	8.0 ft-lbs/in	427 J/m	D 4812
Tensile Strength	7000 psi	48 MPa	D 638
Tensile Elongation	4.0 - 6.0 %	4.0 - 6.0 %	D 638
Tensile Modulus	0.55 x 10 <sup>6</sup> psi	3792 MPa	D 638
Flexural Strength	12000 psi	83 MPa	D 790
Flexural Modulus	0.55 x 10 <sup>6</sup> psi	3792 MPa	D 790

**THERMAL**

Deflection Temperature @ 264 psi (1820 kPa)	280 °F	138 °C	D 648
@ 66 psi (455 kPa)	310 °F	154 °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