



## Product Data Sheet & General Processing Conditions

### RTP 136 HB Polypropylene (PP) Mineral UL94 HB

RTP 136 HB is a mineral reinforced polypropylene offering improved stiffness, hardness, and heat distortion temperature vs. unreinforced polypropylene. It also exhibits lower shrinkage and better dimensional stability.

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

PERMANENCE	English	SI Metric	ASTM TEST
Primary Additive	40 %	40 %	
Specific Gravity	1.27	1.27	D 792
Molding Shrinkage			
1/8 in (3.2 mm) section	0.0070 - 0.0100 in/in	0.70 - 1.00 %	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	0.8 ft-lbs/in	45 J/m	D 256
unnotched 1/8 in (3.2 mm) section	6.5 ft-lbs/in	347 J/m	D 4812
Tensile Strength	3600 psi	25 MPa	D 638
Tensile Elongation	> 10.0 %	> 10.0 %	D 638
Tensile Modulus	0.60 x 10 <sup>6</sup> psi	4137 MPa	D 638
Flexural Strength	6700 psi	46 MPa	D 790
Flexural Modulus	0.50 x 10 <sup>6</sup> psi	3448 MPa	D 790

#### ELECTRICAL

Volume Resistivity	> 1E15 ohm.cm	> 1E15 ohm.cm	D 257
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#### THERMAL

Deflection Temperature			
@ 264 psi (1820 kPa)	175 °F	79 °C	D 648
@ 66 psi (455 kPa)	250 °F	121 °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

	English	SI Metric
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

#### PROCESSING NOTES

This information is intended to be used only as a guideline for designers and processors of modified thermoplastics. Because design and processing is complex, a set solution will not solve all problems. Observation on a "trial and error" basis may be required to achieve desired results.

Data are obtained from specimens molded under carefully controlled conditions from representative samples of the compound described herein. Properties may be materially affected by molding techniques applied and by the size and shape of the item molded. No assurance can be implied that all molded articles will have the same properties as those listed.

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