



**Product Data Sheet &  
General Processing Conditions**

**RTP 600 HB**  
**Acrylonitrile Butadiene Styrene**  
**(ABS)**  
**UL94 HB**  


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

<b>PERMANENCE</b>	<b>English</b>	<b>SI Metric</b>	<b>ASTM TEST</b>
Specific Gravity	1.06	1.06	D 792
Melt Flow Rate @ 230 °C, / 3.8 kg	4.00 - 5.00 g/10 min	4.00 - 5.00 g/10 min	D 1238
Molding Shrinkage 1/8 in (3.2 mm) section	0.0040 - 0.0060 in/in	0.40 - 0.60 %	D 955
Water Absorption, 24 hrs @ 23°C	0.300 %	0.300 %	D 570

**MECHANICAL**

Impact Strength, Izod notched 1/8 in (3.2 mm) section	5.5 ft-lbs/in	294 J/m	D 256
unnotched 1/8 in (3.2 mm) section	20.0 ft-lbs/in	1068 J/m	D 4812
Tensile Strength	6200 psi	43 MPa	D 638
Tensile Elongation	> 10.0 %	> 10.0 %	D 638
Tensile Modulus	0.35 x 10 <sup>6</sup> psi	2413 MPa	D 638
Flexural Strength	10000 psi	69 MPa	D 790
Flexural Modulus	0.35 x 10 <sup>6</sup> psi	2413 MPa	D 790

**ELECTRICAL**

Volume Resistivity	> 1E16 ohm.cm	> 1E16 ohm.cm	D 257
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**THERMAL**

Deflection Temperature @ 264 psi (1820 kPa)	210 °F	99 °C	D 648
@ 66 psi (455 kPa)	215 °F	102 °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	400 - 460 °F	204 - 238 °C
Mold Temperature	145 - 185 °F	63 - 85 °C
Drying	2 hrs @ 180 °F	2 hrs @ 82 °C
Moisture Content	0.10 %	0.10 %
Dew Point	0 °F	-18 °C

**PROCESSING NOTES**

Desiccant Type Dryer Required.