



**Product Data Sheet &
General Processing Conditions**

**RTP 300 HB
Polycarbonate (PC)
Unreinforced
UL94 HB**



PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS

PERMANENCE	English	SI Metric	ASTM TEST
Specific Gravity	1.19	1.19	D 792
Melt Flow Rate @ 300 °C, / 1.2 kg	10.00 - 12.00 g/10 min	10.00 - 12.00 g/10 min	D 1238
Molding Shrinkage 1/8 in (3.2 mm) section	0.0060 - 0.0090 in/in	0.60 - 0.90 %	D 955
Water Absorption, 24 hrs @ 23°C	0.150 %	0.150 %	D 570

MECHANICAL

Impact Strength, Izod notched 1/8 in (3.2 mm) section	15.0 ft-lbs/in	801 J/m	D 256
unnotched 1/8 in (3.2 mm) section	No Break	No Break	D 4812
Tensile Strength	8500 psi	59 MPa	D 638
Tensile Elongation	> 10.0 %	> 10.0 %	D 638
Tensile Modulus	0.32 x 10 ⁶ psi	2206 MPa	D 638
Flexural Strength	13500 psi	93 MPa	D 790
Flexural Modulus	0.34 x 10 ⁶ psi	2344 MPa	D 790
Hardness Rockwell, R	118	118	D 785

ELECTRICAL

Dielectric Strength, S/T, in oil	380 VPM	15.0 kV/mm	D 149
Dielectric Constant, 1 MHz, Dry	3.0	3.0	D 150
Dissipation Factor, 1 MHz, Dry	0.0100	0.0100	D 150
Arc Resistance	120 s	120 s	D 495
Volume Resistivity	> 1E16 ohm.cm	> 1E16 ohm.cm	D 257

THERMAL

Deflection Temperature @ 264 psi (1820 kPa)	270 °F	132 °C	D 648
@ 66 psi (455 kPa)	280 °F	138 °C	D 648
Ignition Resistance*			
Flammability	HB @ 1/32 in	HB @ 0.8 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	550 - 600 °F	288 - 316 °C
Mold Temperature	180 - 250 °F	82 - 121 °C
Drying	4 hrs @ 250 °F	4 hrs @ 121 °C
Moisture Content	0.02 %	0.02 %
Dew Point	-20 °F	-29 °C