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Product Data Sheet & General Processing Conditions

RTP 102 HB
Polypropylene (PP)
Glass Fiber
UL94 HB



PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS

PERMANENCE	English	SI Metric	ASTM TEST
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 ⁶ psi	3448 MPa	D 638
Flexural Strength	10000 psi	69 MPa	D 790
Flexural Modulus	0.40 x 10 ⁶ 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

	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