



**Product Data Sheet &
General Processing Conditions**

**RTP 104 CC FR A
Polypropylene (PP)
Glass Fiber
Chemically Coupled
Flame Retardant
Non PBB/PBDE**



PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS

PERMANENCE	English	SI Metric	ASTM TEST
Specific Gravity	1.47	1.47	D 792
Melt Flow Rate @ 230 °C, / 2.16 kg	2.00 - 4.00 g/10 min	2.00 - 4.00 g/10 min	D 1238
Molding Shrinkage 1/8 in (3.2 mm) section	0.0015 - 0.0030 in/in	0.15 - 0.30 %	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	2.0 ft-lbs/in	107 J/m	D 256
unnotched 1/8 in (3.2 mm) section	10.0 ft-lbs/in	534 J/m	D 4812
Tensile Strength	10000 psi	69 MPa	D 638
Tensile Elongation	2.5 - 4.0 %	2.5 - 4.0 %	D 638
Tensile Modulus	1.00 x 10 ⁶ psi	6895 MPa	D 638
Flexural Strength	16500 psi	114 MPa	D 790
Flexural Modulus	0.88 x 10 ⁶ psi	6068 MPa	D 790
Hardness Rockwell, R	105	105	D 785

ELECTRICAL

Dielectric Strength, S/T, in oil	600 VPM	23.6 kV/mm	D 149
Dielectric Constant, 1 MHz, Dry	3.3	3.3	D 150
Dissipation Factor, 1 MHz, Dry	0.0030	0.0030	D 150
Arc Resistance	85 s	85 s	D 495
Surface Resistance	> 1E15 ohm	> 1E15 ohm	ESD STM11.11

THERMAL

Deflection Temperature @ 264 psi (1820 kPa)	300 °F	149 °C	D 648
@ 66 psi (455 kPa)	315 °F	157 °C	D 648
Ignition Resistance*			
Flammability	V-0 @ 1/32 in	V-0 @ 0.8 mm	UL94
Flammability	V-0 @ 1/8 in	V-0 @ 3.0 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
Drying

90 - 150 °F
2 hrs @ 175 °F

32 - 66 °C
2 hrs @ 79 °C
