




**Product Data Sheet &
General Processing Conditions**

**RTP 2503 FR
Polycarbonate/ABS Alloy (PC/ABS)
Glass Fiber
Flame Retardant
PBDE Free
UL94 V-0**



PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS

PERMANENCE	English	SI Metric	ASTM TEST
Primary Additive	20 %	20 %	
Specific Gravity	1.36	1.36	D 792
Molding Shrinkage 1/8 in (3.2 mm) section	0.0015 - 0.0035 in/in	0.15 - 0.35 %	D 955
Water Absorption, 24 hrs @ 23°C	0.100 %	0.100 %	D 570
MECHANICAL			
Impact Strength, Izod notched 1/8 in (3.2 mm) section	1.9 ft-lbs/in	101 J/m	D 256
unnotched 1/8 in (3.2 mm) section	11.0 ft-lbs/in	587 J/m	D 4812
Tensile Strength	16000 psi	110 MPa	D 638
Tensile Elongation	2.0 - 3.0 %	2.0 - 3.0 %	D 638
Tensile Modulus	1.00 x 10 ⁶ psi	6895 MPa	D 638
Flexural Strength	25000 psi	172 MPa	D 790
Flexural Modulus	0.90 x 10 ⁶ psi	6206 MPa	D 790
Hardness Rockwell, R	118	118	D 785
ELECTRICAL			
Volume Resistivity	> 1E16 ohm.cm	> 1E16 ohm.cm	D 257
THERMAL			
Deflection Temperature @ 264 psi (1820 kPa)	275 °F	135 °C	D 648
Ignition Resistance*			
Flammability	V-0 @ 1/16 in	V-0 @ 1.5 mm	UL94
Flammability	5VA @ 1/8 in	5VA @ 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	470 - 525 °F	243 - 274 °C
Mold Temperature	125 - 200 °F	52 - 93 °C
Drying	4 hrs @ 200 °F	4 hrs @ 93 °C
Moisture Content	0.02 %	0.02 %
Dew Point	-20 °F	-29 °C