



**Product Data Sheet &
General Processing Conditions**

RTP 4600 EA 534
Syndiotactic Polystyrene (SPS)
Glass Fiber
Flame Retardant
UL94 V-0


PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS

PERMANENCE	English	SI Metric	ASTM TEST
Primary Additive	30 %	30 %	
Specific Gravity	1.44	1.44	D 792
Molding Shrinkage 1/8 in (3.2 mm) section	0.0025 - 0.0035 in/in	0.25 - 0.35 %	D 955

MECHANICAL

Impact Strength, Izod notched 1/8 in (3.2 mm) section	1.5 ft-lbs/in	80 J/m	D 256
unnotched 1/8 in (3.2 mm) section	8.0 ft-lbs/in	427 J/m	D 4812
Tensile Strength	15500 psi	107 MPa	D 638
Tensile Elongation	1.5 - 3.0 %	1.5 - 3.0 %	D 638
Tensile Modulus	1.40 x 10 ⁶ psi	9653 MPa	D 638
Flexural Strength	24000 psi	165 MPa	D 790
Flexural Modulus	1.45 x 10 ⁶ psi	9998 MPa	D 790

ELECTRICAL

Dielectric Constant, 1 MHz, Dry	3.0	3.0	D 150
Dissipation Factor, 1 MHz, Dry	0.0010	0.0010	D 150

THERMAL

Deflection Temperature @ 264 psi (1820 kPa)	425 °F	218 °C	D 648
Ignition Resistance*			
Flammability	V-0 @ 0.040 in	V-0 @ 1.0 mm	UL94
Flammability	5VA @ 0.080 in	5VA @ 2.0 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	560 - 620 °F	293 - 327 °C
Mold Temperature	160 - 300 °F	71 - 149 °C
Drying	2 hrs @ 180 °F	2 hrs @ 82 °C
Moisture Content	0.02 %	0.02 %
Dew Point	-20 °F	-29 °C