




**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**

<b>PERMANENCE</b>	<b>English</b>	<b>SI Metric</b>	<b>ASTM TEST</b>
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
<b>MECHANICAL</b>			
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 <sup>6</sup> psi	9653 MPa	D 638
Flexural Strength	24000 psi	165 MPa	D 790
Flexural Modulus	1.45 x 10 <sup>6</sup> psi	9998 MPa	D 790
<b>ELECTRICAL</b>			
Dielectric Constant, 1 MHz, Dry	3.0	3.0	D 150
Dissipation Factor, 1 MHz, Dry	0.0010	0.0010	D 150
<b>THERMAL</b>			
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
<b>PROPERTY NOTES</b>			

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**

	<b>English</b>	<b>SI Metric</b>
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