



**Product Data Sheet &  
General Processing Conditions**

**RTP 4699 X 8022  
Syndiotactic Polystyrene (SPS)  
Reinforced  
Platable**

**PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS**

<b>PERMANENCE</b>	<b>English</b>	<b>SI Metric</b>	<b>ASTM TEST</b>
Specific Gravity	1.38	1.38	D 792
Molding Shrinkage 1/8 in (3.2 mm) section	0.0015 - 0.0025 in/in	0.15 - 0.25 %	D 955
<b>MECHANICAL</b>			
Impact Strength, Izod notched 1/8 in (3.2 mm) section	1.8 ft-lbs/in	93 J/m	D 256
unnotched 1/8 in (3.2 mm) section	7.0 ft-lbs/in	374 J/m	D 4812
Tensile Strength	12000 psi	83 MPa	D 638
Tensile Elongation	2.0 %	2.0 %	D 638
Tensile Modulus	1.25 x 10 <sup>6</sup> psi	8619 MPa	D 638
Flexural Strength	19500 psi	134 MPa	D 790
Flexural Modulus	1.25 x 10 <sup>6</sup> psi	8619 MPa	D 790
<b>THERMAL</b>			
Ignition Resistance* Flammability**	HB @ 1/16 in	HB @ 1.5 mm	D 635
Coefficient of Linear Thermal Expansion Flow Direction	1.1 x 10 <sup>-5</sup> /°F	2.0 x 10 <sup>-5</sup> /°C	E 831
Transverse Direction	4.6 x 10 <sup>-5</sup> /°F	8.3 x 10 <sup>-5</sup> /°C	E 831

**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.

\*\* Values per RTP Company testing.

**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