



**Product Data Sheet &
General Processing Conditions**

**RTP 4699 X 80222
Syndiotactic Polystyrene (SPS)
Reinforced
Platable**

PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS

PERMANENCE	English	SI Metric	ASTM TEST
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

MECHANICAL

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	1.25×10^6 psi	8619 MPa	D 638
Flexural Strength	19500 psi	134 MPa	D 790
Flexural Modulus	1.25×10^6 psi	8619 MPa	D 790

THERMAL

Ignition Resistance*			
Flammability**	HB @ 1/16 in	HB @ 1.5 mm	D 635
Coefficient of Linear Thermal Expansion			
Flow Direction	$1.1 \times 10^{-5}/^{\circ}\text{F}$	$2.0 \times 10^{-5}/^{\circ}\text{C}$	E 831
Transverse Direction	$4.6 \times 10^{-5}/^{\circ}\text{F}$	$8.3 \times 10^{-5}/^{\circ}\text{C}$	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

	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