



**Product Data Sheet &
General Processing Conditions**

**RTP 199 X 70815
Polypropylene (PP)
Long Glass Fiber
Chemically Coupled
Heat Stabilized**

PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS

PERMANENCE	English	SI Metric	ASTM TEST
Primary Additive	30 %	30 %	
Specific Gravity	1.13	1.13	D 792
Molding Shrinkage 1/8 in (3.2 mm) section	0.0010 - 0.0030 in/in	0.10 - 0.30 %	D 955

MECHANICAL

Impact Strength, Izod notched 1/8 in (3.2 mm) section	4.5 ft-lbs/in	240 J/m	D 256
unnotched 1/8 in (3.2 mm) section	17.5 ft-lbs/in	934 J/m	D 4812
Tensile Strength	15950 psi	110 MPa	D 638
Tensile Elongation	2.0 - 3.0 %	2.0 - 3.0 %	D 638
Tensile Modulus	1.01 x 10 ⁶ psi	6998 MPa	D 638
Flexural Strength	24650 psi	170 MPa	D 790
Flexural Modulus	0.94 x 10 ⁶ psi	6481 MPa	D 790

THERMAL

Deflection Temperature @ 264 psi (1820 kPa)	315 °F	157 °C	D 648
Ignition Resistance*			
Flammability**	HB @ 1/16 in	HB @ 1.5 mm	D 635
Automotive**	≤ 4.0 in/mi @ 1/16 in	≤ 102 mm/mi @ 1.6 mm	FMVSS 302
Glow Wire Ignitability Temperature**	775 °C @ 1/32 in	775 °C @ 0.8 mm	IEC 60695-2-13
Coefficient of Linear Thermal Expansion			
Flow Direction	1.3 x 10 ⁻⁵ /°F	2.4 x 10 ⁻⁵ /°C	E 831
Transverse Direction	6.8 x 10 ⁻⁵ /°F	12.3 x 10 ⁻⁵ /°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	440 - 500 °F	227 - 260 °C
Mold Temperature	90 - 150 °F	32 - 66 °C
Drying	2 hrs @ 175 °F	2 hrs @ 79 °C
Moisture Content	< 0.20 %	< 0.20 %