



**Product Data Sheet &  
General Processing Conditions**

**RTP 105 CC FR A  
Polypropylene (PP)  
Glass Fiber Reinforced  
Flame Retardant**



**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	1.53	1.53	D 792
Molding Shrinkage 1/8 in (3.2 mm) section	0.0020 in/in	0.20 %	D 955

**MECHANICAL**

Impact Strength, Izod notched 1/8 in (3.2 mm) section	2.0 ft-lbs/in	107 J/m	D 256
unnotched 1/8 in (3.2 mm) section	11.0 ft-lbs/in	587 J/m	D 4812
Tensile Strength	11000 psi	76 MPa	D 638
Tensile Elongation	3.0 - 4.0 %	3.0 - 4.0 %	D 638
Tensile Modulus	1.10 x 10 <sup>6</sup> psi	7584 MPa	D 638
Flexural Strength	19500 psi	134 MPa	D 790
Flexural Modulus	1.10 x 10 <sup>6</sup> psi	7584 MPa	D 790

**THERMAL**

Deflection Temperature @ 264 psi (1820 kPa)	300 °F	149 °C	D 648
@ 66 psi (455 kPa)	315 °F	157 °C	D 648
Ignition Resistance*			
Flammability	V-0 @ 0.017 in	V-0 @ 0.4 mm	UL94
Glow Wire Ignitability Temperature	775 °C @ 1/32 in	775 °C @ 0.8 mm	IEC 60695-2-13
Glow Wire Flammability Index	960 °C @ 1/32 in	960 °C @ 0.8 mm	IEC 60695-2-12

**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**

	<b>English</b>	<b>SI Metric</b>
Injection Pressure	10000 - 15000 psi	69 - 103 MPa
Melt Temperature	375 - 450 °F	191 - 232 °C
Mold Temperature	90 - 150 °F	32 - 66 °C
Drying	2 hrs @ 175 °F	2 hrs @ 79 °C