



**Product Data Sheet &  
General Processing Conditions**

**RTP PP 30 GF FR0 BLK  
Polypropylene (PP)  
Glass Fiber  
Flame Retardant  
Value Product  
UL94**



**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	1.46	1.46	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	1.8 ft-lbs/in	96 J/m	D 256
unnotched 1/8 in (3.2 mm) section	10.0 ft-lbs/in	534 J/m	D 4812
Tensile Strength	10000 psi	69 MPa	D 638
Tensile Elongation	> 4.0 %	> 4.0 %	D 638
Tensile Modulus	1.10 x 10 <sup>6</sup> psi	7584 MPa	D 638
Flexural Strength	16000 psi	110 MPa	D 790
Flexural Modulus	0.90 x 10 <sup>6</sup> psi	6206 MPa	D 790
Hardness Rockwell, R	105	105	D 785

**ELECTRICAL**

Dielectric Strength, S/T, in oil	450 VPM	17.7 kV/mm	D 149
Dielectric Constant, 1 MHz, Dry	3.3	3.3	D 150
Dissipation Factor, 1 MHz, Dry	0.0030	0.0030	D 150
Arc Resistance	85 s	85 s	D 495
Volume Resistivity	> 1E15 ohm.cm	> 1E15 ohm.cm	D 257

**THERMAL**

Deflection Temperature @ 264 psi (1820 kPa)	290 °F	143 °C	D 648
@ 66 psi (455 kPa)	310 °F	154 °C	D 648
Ignition Resistance*			
Flammability	V-0 @ 1/32 in	V-0 @ 0.8 mm	UL94
Flammability	V-0 @ 1/8 in	V-0 @ 3.0 mm	UL94

**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**

**English**

**SI Metric**

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

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