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Ponciplastics.com



**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

PERMANENCE	English	SI Metric	ASTM TEST
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 ⁶ psi	7584 MPa	D 638
Flexural Strength	16000 psi	110 MPa	D 790
Flexural Modulus	0.90 x 10 ⁶ 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
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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
