



**Product Data Sheet &
General Processing Conditions**

**RTP 203 C FR
Nylon 11 (PA)
Glass Fiber
Flame Retardant
47% Renewable Resource Content***

*Based on % of total compound weight.

PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS

PERMANENCE	English	SI Metric	ASTM TEST
Primary Additive	20 %	20 %	
Specific Gravity	1.50	1.50	D 792
Molding Shrinkage 1/8 in (3.2 mm) section	0.0025 - 0.0045 in/in	0.25 - 0.45 %	D 955
Water Absorption, 24 hrs @ 23°C	0.190 %	0.190 %	D 570

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	12000 psi	83 MPa	D 638
Tensile Elongation	2.0 - 3.0 %	2.0 - 3.0 %	D 638
Tensile Modulus	0.85 x 10 ⁶ psi	5861 MPa	D 638
Flexural Strength	15000 psi	103 MPa	D 790
Flexural Modulus	0.80 x 10 ⁶ psi	5516 MPa	D 790
Hardness Rockwell, R	108	108	D 785

ELECTRICAL

Volume Resistivity	> 1E13 ohm.cm	> 1E13 ohm.cm	D 257
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THERMAL

Deflection Temperature @ 264 psi (1820 kPa)	340 °F	171 °C	D 648
@ 66 psi (455 kPa)	355 °F	179 °C	D 648
Ignition Resistance* Flammability**	V-0 @ 1/16 in	V-0 @ 1.5 mm	D 3801

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	435 - 550 °F	224 - 288 °C
Mold Temperature	100 - 150 °F	38 - 66 °C
Drying	4 hrs @ 175 °F	4 hrs @ 79 °C
Moisture Content	0.20 %	0.20 %
Dew Point	0 °F	-18 °C