



**Product Data Sheet &
General Processing Conditions**

**RTP 201 G FR HS
Nylon 4/6 (PA)
Glass Fiber
Flame Retardant
Heat Stabilized
Dry As Molded**

PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS

| PERMANENCE | English | SI Metric | ASTM TEST |
|--|----------------------------|------------------|------------------|
| Primary Additive | 10 % | 10 % | |
| Specific Gravity | 1.54 | 1.54 | D 792 |
| Molding Shrinkage 1/8 in (3.2 mm) section | 0.0070 - 0.0100 in/in | 0.70 - 1.00 % | D 955 |
| MECHANICAL | | | |
| Impact Strength, Izod notched 1/8 in (3.2 mm) section | 0.8 ft-lbs/in | 43 J/m | D 256 |
| unnotched 1/8 in (3.2 mm) section | 8.0 ft-lbs/in | 427 J/m | D 4812 |
| Tensile Strength | 14000 psi | 97 MPa | D 638 |
| Tensile Elongation | 3.0 - 4.0 % | 3.0 - 4.0 % | D 638 |
| Tensile Modulus | 0.85 x 10 ⁶ psi | 5861 MPa | D 638 |
| Flexural Strength | 24000 psi | 165 MPa | D 790 |
| Flexural Modulus | 0.75 x 10 ⁶ psi | 5171 MPa | D 790 |
| ELECTRICAL | | | |
| Volume Resistivity | > 1E14 ohm.cm | > 1E14 ohm.cm | D 257 |
| THERMAL | | | |
| Deflection Temperature @ 264 psi (1820 kPa) | 525 °F | 274 °C | D 648 |
| Ignition Resistance* Flammability** | V-0 @ 1/32 in | V-0 @ 0.8 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 | 560 - 620 °F | 293 - 327 °C |
| Mold Temperature | 175 - 300 °F | 79 - 149 °C |
| Drying | 4 hrs @ 250 °F | 4 hrs @ 121 °C |
| Moisture Content | 0.05 % | 0.05 % |
| Dew Point | -40 °F | -40 °C |

PROCESSING NOTES

Desiccant Type Dryer Required.