



**Product Data Sheet &
General Processing Conditions**

**RTP 203 D
Nylon 6/12 (PA)
Glass Fiber**

PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS

| PERMANENCE | English | SI Metric | ASTM TEST |
|--|-----------------------|------------------|------------------|
| Primary Additive | 20 % | 20 % | |
| Specific Gravity | 1.22 | 1.22 | D 792 |
| Molding Shrinkage 1/8 in (3.2 mm) section | 0.0020 - 0.0050 in/in | 0.20 - 0.50 % | D 955 |

MECHANICAL

| | | | |
|--|----------------------------|-------------|--------|
| Impact Strength, Izod notched 1/8 in (3.2 mm) section | 1.5 ft-lbs/in | 80 J/m | D 256 |
| unnotched 1/8 in (3.2 mm) section | 11.0 ft-lbs/in | 587 J/m | D 4812 |
| Tensile Strength | 18000 psi | 124 MPa | D 638 |
| Tensile Elongation | 3.0 - 4.0 % | 3.0 - 4.0 % | D 638 |
| Tensile Modulus | 1.00 x 10 ⁶ psi | 6895 MPa | D 638 |
| Flexural Strength | 27000 psi | 186 MPa | D 790 |
| Flexural Modulus | 0.85 x 10 ⁶ psi | 5861 MPa | D 790 |

THERMAL

| | | | |
|--|--------------|-------------|-------|
| Ignition Resistance* Flammability** | HB @ 1/16 in | HB @ 1.5 mm | D 635 |
|--|--------------|-------------|-------|

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 - 18000 psi | 69 - 124 MPa |
| Melt Temperature | 480 - 545 °F | 249 - 285 °C |
| Mold Temperature | 140 - 200 °F | 60 - 93 °C |
| Drying | 4 hrs @ 175 °F | 4 hrs @ 79 °C |
| Moisture Content | 0.20 % | 0.20 % |
| Dew Point | 0 °F | -18 °C |

PROCESSING NOTES

Desiccant Type Dryer Required.