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Poncioplastics.com



## 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<br>TEST |
|----------------------------------------------|-----------------------|---------------|--------------|
| Primary Additive                             | 20 %                  | 20 %          |              |
| Specific Gravity                             | 1.22                  | 1.22          | D 792        |
| Molding Shrinkage<br>1/8 in (3.2 mm) section | 0.0020 - 0.0050 in/in | 0.20 - 0.50 % | D 955        |

#### MECHANICAL

|                                                          |                            |             |        |
|----------------------------------------------------------|----------------------------|-------------|--------|
| Impact Strength, Izod<br>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 <sup>6</sup> psi | 6895 MPa    | D 638  |
| Flexural Strength                                        | 27000 psi                  | 186 MPa     | D 790  |
| Flexural Modulus                                         | 0.85 x 10 <sup>6</sup> 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.