

(+) 18816996168

Poncioplastics.com



**Product Data Sheet &  
General Processing Conditions**

**RTP 299 A X 108950 E  
Nylon 6 (PA)  
High Gravity Compound**

**PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS**

| PERMANENCE                                   | English               | SI Metric     | ASTM<br>TEST |
|----------------------------------------------|-----------------------|---------------|--------------|
| Specific Gravity                             | 6.00                  | 6.00          | D 792        |
| Molding Shrinkage<br>1/8 in (3.2 mm) section | 0.0050 - 0.0100 in/in | 0.50 - 1.00 % | D 955        |

**MECHANICAL**

|                                                          |                            |             |        |
|----------------------------------------------------------|----------------------------|-------------|--------|
| Impact Strength, Izod<br>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                        | 6.0 ft-lbs/in              | 320 J/m     | D 4812 |
| Tensile Strength                                         | 8300 psi                   | 57 MPa      | D 638  |
| Tensile Elongation                                       | 2.0 - 3.0 %                | 2.0 - 3.0 % | D 638  |
| Tensile Modulus                                          | 1.70 x 10 <sup>6</sup> psi | 11722 MPa   | D 638  |
| Flexural Strength                                        | 14500 psi                  | 100 MPa     | D 790  |
| Flexural Modulus                                         | 1.60 x 10 <sup>6</sup> psi | 11032 MPa   | D 790  |

**THERMAL**

|                                        |              |             |       |
|----------------------------------------|--------------|-------------|-------|
| Ignition Resistance*<br>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 - 15000 psi | 69 - 103 MPa  |
| Melt Temperature   | 470 - 535 °F      | 243 - 279 °C  |
| Mold Temperature   | 130 - 200 °F      | 54 - 93 °C    |
| Drying             | 2 hrs @ 180 °F    | 2 hrs @ 82 °C |
| Moisture Content   | 0.20 %            | 0.20 %        |
| Dew Point          | 0 °F              | -18 °C        |

**PROCESSING NOTES**

Desiccant Type Dryer Required.