

(+) 18816996168

Ponciplastics.com



Product Data Sheet & General Processing Conditions

**RTP PA66 43 GF BLK
Nylon 6/6 (PA)
Value Product
Glass Fiber
Heat Stabilized**

PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS

| PERMANENCE | English | SI Metric | ASTM TEST |
|----------------------------------------------|-----------------------|------------------|------------------|
| Primary Additive | 43 % | 43 % | |
| Specific Gravity | 1.49 | 1.49 | D 792 |
| Molding Shrinkage 1/8 in (3.2 mm) section | 0.0010 - 0.0030 in/in | 0.10 - 0.30 % | D 955 |

MECHANICAL

| | | | |
|----------------------------------------------------------|----------------------------|-------------|--------|
| Impact Strength, Izod notched 1/8 in (3.2 mm) section | 1.9 ft-lbs/in | 101 J/m | D 256 |
| unnotched 1/8 in (3.2 mm) section | 17.0 ft-lbs/in | 908 J/m | D 4812 |
| Tensile Strength | 26000 psi | 179 MPa | D 638 |
| Tensile Elongation | 2.0 - 3.0 % | 2.0 - 3.0 % | D 638 |
| Tensile Modulus | 1.70 x 10 ⁶ psi | 11722 MPa | D 638 |
| Flexural Strength | 40000 psi | 276 MPa | D 790 |
| Flexural Modulus | 1.70 x 10 ⁶ psi | 11722 MPa | D 790 |

THERMAL

| | | | |
|------------------------------------------------|--------------|-------------|-------|
| Deflection Temperature @ 264 psi (1820 kPa) | 500 °F | 260 °C | D 648 |
| 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 | 530 - 570 °F | 277 - 299 °C |
| Mold Temperature | 150 - 225 °F | 66 - 107 °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.