



**Product Data Sheet &
General Processing Conditions**

**RTP 282 B TFE 15
Nylon 6/10 (PA)
Carbon Fiber
PTFE Lubricated**

PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS

| PERMANENCE | English | SI Metric | ASTM TEST |
|--|-----------------------|------------------|------------------|
| Primary Additive | 15 % | 15 % | |
| Specific Gravity | 1.24 | 1.24 | D 792 |
| Molding Shrinkage 1/8 in (3.2 mm) section | 0.0020 - 0.0040 in/in | 0.20 - 0.40 % | D 955 |

MECHANICAL

| | | | |
|--|----------------------------|-------------|--------|
| Impact Strength, Izod notched 1/8 in (3.2 mm) section | 2.6 ft-lbs/in | 139 J/m | D 256 |
| unnotched 1/8 in (3.2 mm) section | 17.0 ft-lbs/in | 908 J/m | D 4812 |
| Tensile Strength | 20500 psi | 141 MPa | D 638 |
| Tensile Elongation | 3.5 - 5.0 % | 3.5 - 5.0 % | D 638 |
| Tensile Modulus | 1.60 x 10 ⁶ psi | 11032 MPa | D 638 |
| Flexural Strength | 31000 psi | 214 MPa | D 790 |
| Flexural Modulus | 1.20 x 10 ⁶ psi | 8274 MPa | D 790 |

THERMAL

| | | | |
|--|--------------|-------------|-------|
| Deflection Temperature @ 264 psi (1820 kPa) | 405 °F | 207 °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 | 2 hrs @ 175 °F | 2 hrs @ 79 °C |
| Moisture Content | 0.20 % | 0.20 % |
| Dew Point | 0 °F | -18 °C |

PROCESSING NOTES

Desiccant Type Dryer Required.