



**Product Data Sheet &
General Processing Conditions**

**RTP 200 TC-C-20 FR
Nylon 6/6 (PA)
Thermally Conductive
Electrically Conductive
Flame Retardant**



PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS

| PERMANENCE | English | SI Metric | ASTM TEST |
|--|---|------------------|------------------|
| Specific Gravity | 1.68 | 1.68 | 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 | 1.0 ft-lbs/in | 53 J/m | D 256 |
| unnotched 1/8 in (3.2 mm) section | 7.0 ft-lbs/in | 374 J/m | D 4812 |
| Tensile Strength | 20000 psi | 138 MPa | D 638 |
| Tensile Elongation | 1.0 % | 1.0 % | D 638 |
| Tensile Modulus | 3.30 x 10 ⁶ psi | 22754 MPa | D 638 |
| Flexural Strength | 30000 psi | 207 MPa | D 790 |
| Flexural Modulus | 3.00 x 10 ⁶ psi | 20685 MPa | D 790 |
| ELECTRICAL | | | |
| Volume Resistivity | < 1E2 ohm.cm | < 1E2 ohm.cm | D 257 |
| Surface Resistivity | < 1E4 ohm/sq | < 1E4 ohm/sq | D 257 |
| THERMAL | | | |
| Deflection Temperature @ 264 psi (1820 kPa) | 450 °F | 232 °C | D 648 |
| Ignition Resistance* Flammability | V-0 @ 1/16 in | V-0 @ 1.5 mm | UL94 |
| Thermal Conductivity Through-plane | 9.00 (BTU.in)/(hr.ft ² .°F) | 1.30 W/(m.K) | E 1530 |
| In-plane | 19.00 (BTU.in)/(hr.ft ² .°F) | 2.74 W/(m.K) | E 1461-92 |

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.

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.