



**Product Data Sheet &
General Processing Conditions**

**RTP 200 TC-C-70
Nylon 6/6 (PA)
Thermally Conductive
Electrically Conductive**

PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS

| PERMANENCE | English | SI Metric | ASTM TEST |
|-----------------------------------|--|------------------|------------------|
| Specific Gravity | 1.71 | 1.71 | D 792 |
| MECHANICAL | | | |
| Impact Strength, Izod | | | |
| notched 1/8 in (3.2 mm) section | 0.5 ft-lbs/in | 27 J/m | D 256 |
| unnotched 1/8 in (3.2 mm) section | 1.5 ft-lbs/in | 80 J/m | D 4812 |
| Tensile Strength | 5000 psi | 34 MPa | D 638 |
| Tensile Elongation | < 1.0 % | < 1.0 % | D 638 |
| Tensile Modulus | 2.60 x 10 ⁶ psi | 17927 MPa | D 638 |
| Flexural Strength | 11000 psi | 76 MPa | D 790 |
| Flexural Modulus | 2.50 x 10 ⁶ psi | 17238 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) | 366 °F | 186 °C | D 648 |
| Thermal Conductivity | | | |
| Through-plane | 43.75 (BTU.in)/(hr.ft ² .°F) | 6.30 W/(m.K) | E 1530 |
| In-plane | 222.22 (BTU.in)/(hr.ft ² .°F) | 32.02 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.

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 | 200 - 300 °F | 93 - 149 °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.