



**Product Data Sheet &
General Processing Conditions**

**RTP 1199 X 115085 D
Polyethylene Terephthalate Glycol
Modified (PETG)
Carbon Nanotube
ESD Protection**

PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS

| PERMANENCE | English | SI Metric | ASTM TEST |
|--|-----------------------|------------------|------------------|
| Specific Gravity | 1.29 | 1.29 | 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 | 0.5 ft-lbs/in | 27 J/m | D 256 |
| unnotched 1/8 in (3.2 mm) section | 7.0 ft-lbs/in | 374 J/m | D 4812 |
| Tensile Strength | 7200 psi | 50 MPa | D 638 |
| Tensile Elongation | 7.0 % | 7.0 % | D 638 |
| Tensile Modulus | 0.36 x 10 ⁶ psi | 2482 MPa | D 638 |
| Flexural Strength | 12600 psi | 87 MPa | D 790 |
| Flexural Modulus | 0.39 x 10 ⁶ psi | 2689 MPa | D 790 |

ELECTRICAL

| | | | |
|---------------------|------------------|------------------|--------------------|
| Volume Resistivity | 1E2 - 1E4 ohm.cm | 1E2 - 1E4 ohm.cm | D 257 |
| Surface Resistivity | 1E5 - 1E7 ohm/sq | 1E5 - 1E7 ohm/sq | D 257 |
| Surface Resistance | 1E4 - 1E6 ohm | 1E4 - 1E6 ohm | ESD STM11.11 |
| Static Decay | < 2.00 s | < 2.00 s | FTMS101C 4046.1 |

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 EXTRUSION PROCESSING

| | English | SI Metric |
|------------------|----------------|------------------|
| Melt Temperature | 480 - 560 °F | 249 - 293 °C |
| Die Temperature | 480 - 560 °F | 249 - 293 °C |
| Drying | 4 hrs @ 150 °F | 4 hrs @ 66 °C |
| Moisture Content | 0.02 % | 0.02 % |
| Dew Point | -29 °F | -34 °C |

PROCESSING NOTES

Desiccant Type Dryer Required.