



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.

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This information is intended to be used only as a guideline for designers and processors of modified thermoplastics. Because design and processing is complex, a set solution will not solve all problems. Observation on a "trial and error" basis may be required to achieve desired results.

Data are obtained from specimens molded under carefully controlled conditions from representative samples of the compound described herein. Properties may be materially affected by molding techniques applied and by the size and shape of the item molded. No assurance can be implied that all molded articles will have the same properties as those listed.

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RTP COMPANY • 580 EAST FRONT STREET • WINONA, MN 55987 • 507-454-6900