



**Product Data Sheet &
General Processing Conditions**

**RTP 799 X 131030 C
High Density Polyethylene (HDPE)
Thermally Conductive
Electrically Conductive**

PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS

PERMANENCE	English	SI Metric	ASTM TEST
Specific Gravity	1.33	1.33	D 792
Molding Shrinkage 1/8 in (3.2 mm) section	0.0120 - 0.0140 in/in	1.20 - 1.40 %	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	3.5 ft-lbs/in	187 J/m	D 4812
Tensile Strength	4000 psi	28 MPa	D 638
Tensile Elongation	5.0 %	5.0 %	D 638
Tensile Modulus	0.60 x 10 ⁶ psi	4137 MPa	D 638
Flexural Strength	6000 psi	41 MPa	D 790
Flexural Modulus	0.50 x 10 ⁶ psi	3448 MPa	D 790

ELECTRICAL

Volume Resistivity	< 1E4 ohm.cm	< 1E4 ohm.cm	D 257
Surface Resistivity	< 1E6 ohm/sq	< 1E6 ohm/sq	D 257

THERMAL

Thermal Conductivity Through-plane	10.41 (BTU.in)/(hr.ft ² .°F)	1.50 W/(m.K)	E 1530
In-plane	41.66 (BTU.in)/(hr.ft ² .°F)	6.00 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 - 15000 psi	69 - 103 MPa
Melt Temperature	380 - 450 °F	193 - 232 °C
Mold Temperature	70 - 150 °F	21 - 66 °C
Drying	2 hrs @ 175 °F	2 hrs @ 79 °C