



**Product Data Sheet &
General Processing Conditions**

**RTP 1099 X 91190
Polybutylene Terephthalate (PBT)
Encapsulation Grade**

PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS

PERMANENCE	English	SI Metric	ASTM TEST
Specific Gravity	1.79	1.79	D 792
Molding Shrinkage 1/8 in (3.2 mm) section	0.0040 - 0.0050 in/in	0.40 - 0.50 %	D 955

MECHANICAL

Impact Strength, Izod notched 1/8 in (3.2 mm) section	1.3 ft-lbs/in	69 J/m	D 256
unnotched 1/8 in (3.2 mm) section	7.5 ft-lbs/in	400 J/m	D 4812
Tensile Strength	13000 psi	90 MPa	D 638
Tensile Elongation	1.0 - 2.0 %	1.0 - 2.0 %	D 638
Tensile Modulus	1.90 x 10 ⁶ psi	13100 MPa	D 638
Flexural Strength	21500 psi	148 MPa	D 790
Flexural Modulus	1.70 x 10 ⁶ psi	11722 MPa	D 790

ELECTRICAL

Dielectric Constant, 1 MHz, Dry	4.0	4.0	D 150
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THERMAL

Deflection Temperature @ 264 psi (1820 kPa)	395 °F	202 °C	D 648
@ 66 psi (455 kPa)	425 °F	218 °C	D 648

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	460 - 520 °F	238 - 271 °C
Mold Temperature	175 - 225 °F	79 - 107 °C
Drying	4 hrs @ 250 °F	4 hrs @ 121 °C
Moisture Content	0.03 %	0.03 %
Dew Point	-20 °F	-29 °C

PROCESSING NOTES

Desiccant Type Dryer Required.