



**Product Data Sheet &
General Processing Conditions**

**RTP 4099 X 128641 A
Polyphthalamide (PPA)
Thermally Conductive
Electrically Insulative
Preliminary**

PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS

PERMANENCE	English	SI Metric	ASTM TEST
Specific Gravity	2.57	2.57	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	12000 psi	83 MPa	D 638
Tensile Elongation	< 1.0 %	< 1.0 %	D 638
Tensile Modulus	2.00 x 10 ⁶ psi	13790 MPa	D 638
Flexural Strength	15000 psi	103 MPa	D 790
Flexural Modulus	2.00 x 10 ⁶ psi	13790 MPa	D 790

ELECTRICAL

Surface Resistivity	> 1E12 ohm/sq	> 1E12 ohm/sq	D 257
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THERMAL

Thermal Conductivity			
Through-plane	6.94 (BTU.in)/(hr.ft ² .°F)	1.00 W/(m.K)	E 1530

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	575 - 625 °F	302 - 329 °C
Mold Temperature	275 - 325 °F	135 - 163 °C
Drying	4 - 6 hrs @ 225 °F	4 - 6 hrs @ 107 °C
Moisture Content	0.05 %	0.05 %
Dew Point	-25 °F	-32 °C

PROCESSING NOTES

Desiccant Type Dryer Required.