



**Product Data Sheet &
General Processing Conditions**

**RTP 2099 x 121825 E
Biobased Polyamide (PA)
Permanently Anti-static
ESD Protection
31% Bio-Content**

PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS

PERMANENCE	English	SI Metric	ASTM TEST
Specific Gravity	1.10	1.10	D 792
Molding Shrinkage 1/8 in (3.2 mm) section	0.0150 in/in	1.50 %	D 955

MECHANICAL

Impact Strength, Izod notched 1/8 in (3.2 mm) section	4.5 ft-lbs/in	240 J/m	D 256
unnotched 1/8 in (3.2 mm) section	No Break	No Break	D 4812
Tensile Strength	6000 psi	41 MPa	D 638
Tensile Elongation	> 10.0 %	> 10.0 %	D 638
Tensile Modulus	0.25 x 10 ⁶ psi	1724 MPa	D 638
Flexural Strength	8000 psi	55 MPa	D 790
Flexural Modulus	0.20 x 10 ⁶ psi	1379 MPa	D 790

ELECTRICAL

Volume Resistivity	1E9 - 1E10 ohm.cm	1E9 - 1E10 ohm.cm	D 257
Surface Resistivity	1E10 - 1E11 ohm/sq	1E10 - 1E11 ohm/sq	D 257
Static Decay MIL-PRF-81705D, 5kV to 50 V, 12% RH	< 2.00 s	< 2.00 s	FTMS101C 4046.1

THERMAL

Ignition Resistance* Flammability**	HB @ 1/16 in	HB @ 1.5 mm	D 635
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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.

* This rating is not intended to reflect hazards of this or any other material under actual fire conditions.

** Values per RTP Company testing.

GENERAL PROCESSING FOR INJECTION MOLDING

	English	SI Metric
Injection Pressure	10000 - 15000 psi	69 - 103 MPa
Melt Temperature	425 - 475 °F	218 - 246 °C
Mold Temperature	125 - 175 °F	52 - 79 °C
Drying	2 hrs @ 175 °F	2 hrs @ 79 °C
Moisture Content	0.20 %	0.20 %
Dew Point	0 °F	-18 °C

PROCESSING NOTES

Desiccant Type Dryer Required.