



**Product Data Sheet &
General Processing Conditions**

**RTP 2099 X 106722 C
Thermoplastic Alloy
High Gravity Compound**

PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS

PERMANENCE	English	SI Metric	ASTM TEST
Specific Gravity	11.00	11.00	D 792
Molding Shrinkage 1/8 in (3.2 mm) section	0.0050 - 0.0090 in/in	0.50 - 0.90 %	D 955

MECHANICAL

Impact Strength, Izod notched 1/8 in (3.2 mm) section	1.0 ft-lbs/in	53 J/m	D 256
unnotched 1/8 in (3.2 mm) section	2.0 ft-lbs/in	107 J/m	D 4812
Tensile Strength	600 psi	4 MPa	D 638
Tensile Elongation	1.0 - 2.0 %	1.0 - 2.0 %	D 638
Tensile Modulus	0.60 x 10 ⁶ psi	4137 MPa	D 638
Flexural Strength	900 psi	6 MPa	D 790
Flexural Modulus	0.10 x 10 ⁶ psi	690 MPa	D 790

THERMAL

Ignition Resistance* Flammability**	HB @ 1/16 in	HB @ 1.5 mm	D 635
Coefficient of Linear Thermal Expansion Flow Direction	4.0 x 10 ⁻⁵ /°F	7.1 x 10 ⁻⁵ /°C	E 831
Transverse Direction	6.9 x 10 ⁻⁵ /°F	12.4 x 10 ⁻⁵ /°C	E 831

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	360 - 450 °F	182 - 232 °C
Mold Temperature	60 - 100 °F	16 - 38 °C
Drying	2 hrs @ < 140 °F	2 hrs @ < 60 °C

PROCESSING NOTES

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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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