

Product Data Sheet & General Processing Conditions

RTP 299 A X 106739 Nylon 6 (PA) High Gravity Compound

PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS

		ASTM
English	SI Metric	TEST
5.75	5.75	D 792
0.0040 - 0.0080 in/in	0.40 - 0.80 %	D 955
0.9 ft-lbs/in	48 J/m	D 256
3.0 ft-lbs/in	160 J/m	D 4812
4000 psi	28 MPa	D 638
1.0 - 2.0 %	1.0 - 2.0 %	D 638
1.50 x 10^6 psi	10342 MPa	D 638
9000 psi	62 MPa	D 790
1.70 x 10^6 psi	11722 MPa	D 790
HB @ 1/16 in	HB @ 1.5 mm	D 635
	5.75 0.0040 - 0.0080 in/in 0.9 ft-lbs/in 3.0 ft-lbs/in 4000 psi 1.0 - 2.0 % 1.50 x 10^6 psi 9000 psi 1.70 x 10^6 psi	5.75 5.75 0.0040 - 0.0080 in/in 0.40 - 0.80 % 0.9 ft-lbs/in 48 J/m 3.0 ft-lbs/in 160 J/m 4000 psi 28 MPa 1.0 - 2.0 % 1.0 - 2.0 % 1.50 x 10^6 psi 10342 MPa 9000 psi 62 MPa 1.70 x 10^6 psi 11722 MPa

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	470 - 535 °F	243 - 279 °C
Mold Temperature	130 - 200 °F	54 - 93 °C
Drying	2 hrs @ 180 °F	2 hrs @ 82 °C
Moisture Content	0.20 %	0.20 %
Dew Point	0 °F	-18 °C
PROCESSING NOTES		

Desiccant Type Dryer Required.

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

^{**} Values per RTP Company testing.

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