

Product Data Sheet & General Processing Conditions

RTP 4000 AT-1001 L Polyphthalamide (PPA) Impact Modified Lubricated

PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS

			ASTM
PERMANENCE	English	SI Metric	TEST
Specific Gravity	1.10	1.10	D 792
Molding Shrinkage			2.02
1/8 in (3.2 mm) section	0.0160 in/in	1.60 %	D 955
Water Absorption, 24 hrs @ 23°C	0.500 %	0.500 %	D 570
MECHANICAL			
Impact Strength, Izod			
notched 1/8 in (3.2 mm) section	18.0 ft-lbs/in	961 J/m	D 256
unnotched 1/8 in (3.2 mm) section	No Break	No Break	D 4812
Tensile Strength	8000 psi	55 MPa	D 638
Tensile Elongation	> 10.0 %	> 10.0 %	D 638
Tensile Modulus	0.30 x 10^6 psi	2068 MPa	D 638
Flexural Strength	11500 psi	79 MPa	D 790
Flexural Modulus	0.30 x 10^6 psi	2068 MPa	D 790
THERMAL			
Deflection Temperature			
@ 264 psi (1820 kPa)	230 °F	110 °C	D 648
Ignition Resistance*			
Flammability**	HB @ 1/16 in	HB @ 1.5 mm	D 635

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	580 - 630 °F	304 - 332 °C
Mold Temperature	150 - 280 °F	66 - 138 °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.

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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.

^{*} 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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