

RTP 205 D Nylon 6/12 (PA) Glass Fiber

PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS

PROPERTIES & AVERAGE VALUES OF INJECTION M			ASTM
PERMANENCE	English	SI Metric	TEST
Primary Additive	30 %	30 %	
Specific Gravity	1.30	1.30	D 792
Molding Shrinkage			
1/8 in (3.2 mm) section	0.0020 - 0.0040 in/in	0.20 - 0.40 %	D 955
MECHANICAL			
Impact Strength, Izod			
notched 1/8 in (3.2 mm) section	2.2 ft-lbs/in	117 J/m	D 256
unnotched 1/8 in (3.2 mm) section	19.0 ft-lbs/in	1014 J/m	D 4812
Tensile Strength	23000 psi	159 MPa	D 638
Tensile Elongation	3.0 - 4.0 %	3.0 - 4.0 %	D 638
Tensile Modulus	1.30 x 10^6 psi	8964 MPa	D 638
Flexural Strength	34500 psi	238 MPa	D 790
Flexural Modulus	1.20 x 10^6 psi	8274 MPa	D 790
ELECTRICAL			
Volume Resistivity	> 1E14 ohm.cm	> 1E14 ohm.cm	D 257
THERMAL			
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.

* 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

10000 - 18000 psi	69 - 124 MPa
480 - 545 °F	249 - 285 °C
140 - 200 °F	60 - 93 °C
4 hrs @ 175 °F	4 hrs @ 79 °C
0.20 %	0.20 %
0 °F	-18 °C
	480 - 545 °F 140 - 200 °F 4 hrs @ 175 °F 0.20 %

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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