



NYLON (6/6 Nylon)

DESCRIPTION

Nylon 6/6 is a Hydro-Stable, 35% Glass Fiber reinforced compound based on Nylon 66. Added features of this grade include: Heat Stabilized, NSF Listed.

PROPERTIES	English	SI Metric	ASTM TEST
PERMANENCE			
Primary Additive	33%	33%	
Specific Gravity	1.39	1.39	ASTM D 792
Molding Shrinkage 1/8 in (3.2 mm) section3	0.0020 - 0.0040 in/in	0.20 - 0.40 %	ASTM D 955
MECHANICAL			
Impact Strength, Izod notched 1/8 in (3.2 mm) section	2.0 ft-lbs/in	107 J/m	ASTM D 256
unnotched 1/8 in (3.2 mm) section	18.0 ft-lbs/in	961 J/m	ASTM D 4812
Tensile Strength	27500 psi	190 MPa	ASTM D 638
Tensile Elongation	3.5 %	3.5 %	ASTM D 638
Tensile Modulus	1.50 x 10 ⁶ psi	10342 MPa	ASTM D 638
Flexural Strength	40000 psi	276 MPa	ASTM D 790
THERMAL			
Deflection Temperature @ 264 psi (1820 kPa)	480 °F	249 °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.			
* 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			
Injection Pressure	10000 - 18000 psi	69 - 124 MPa	
Melt Temperature	530-570 °F	277 - 299 °C	
Mold Temperature	150-225 °F	66-107 °C	
Drying	4 hrs @ 175 °F	4 hrs @ 79 °C	
Moisture Content	0.20 %	0.20 %	
Dew Point	0 °F	-18 °C	

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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