



Technical Data Sheet

Phoenamide® N1600 G13 13% Glass Reinforced Polyamide (Nylon) Type 6

Date: January, 2008

General

Features	Excellent chemical resistance Very good stiffness and elevated temperature capability Very good surface appearance
Appearance	Off white or pigmented Pellets
Processes	Injection molding

<i>Typical Compound Properties^(a)</i>		<i>Nominal Values</i>		<i>Test Methods^(b)</i>	
Physical		English Units	Metric Units		
Relative Viscosity	50.0 cP	50.0 kPa•s	ASTM D789		
Melt Point	419 °F	215 °C	ASTM D789		
Specific Gravity	1.22	1.22	ASTM D792		
Water Absorption	1.20%	1.20%	ASTM D570		
Linear Mold Shrinkage	0.006 in/in	0.006 mm/mm	ASTM D955		
Hardness, Rockwell Scale	R118	R118	ASTM D785		
Coefficient of Linear Thermal Expansion	2.40 x 10 ⁻⁵ in/in °F	4.32 x 10 ⁻⁵ cm/cm °C	ASTM D696		
Reinforcement Content	13±2%	13±2%	ASTM D2584		

Mechanical^(c)

Notched Izod Impact @ 73 °F (23 °C)	1.0 ft-lb/in.	53.4 J/m	ASTM D256
Tensile Strength @ Yield	15,500 psi	106.9 MPa	ASTM D638
Elongation @ Break	3%	3%	ASTM D638
Flexural Strength	24,300 psi	167.6 MPa	ASTM D790
Flexural Modulus, tangent	750,000 psi	5,172 MPa	ASTM D790
Heat Deflection Temperature			
@ 66 psi (0.455 MPa)	415 °F	213 °C	ASTM D648
@ 264 psi (1.82 MPa)	380 °F	193 °C	ASTM D648

(a) Values shown represent nominal averages and are not to be construed as product specifications.

(b) ASTM methods are the latest under the Society's current Procedures. All Molded specimens are prepared by injection molding.

(c) Properties measured on "Dry As Molded" test specimens.

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