



Technical Data Sheet

Phoenamide® N2600 G13

13% Glass Reinforced Polyamide (Nylon) Type 6/6

Date: January, 2008

General

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

Typical Compound Properties^(a)

Physical	Nominal Values		Test Methods ^(b)
	English Units	Metric Units	
Relative Viscosity	50.0 cP	50.0 kPa•s	ASTM D789
Melt Point	509 °F	265 °C	ASTM D789
Specific Gravity	1.23	1.23	ASTM D792
Water Absorption	1.00%	1.00%	ASTM D570
Linear Mold Shrinkage	0.006 in/in	0.006 mm/mm	ASTM D955
Hardness, Rockwell Scale	R122	R122	ASTM D785
Coefficient of Linear Thermal Expansion	1.50 x 10 ⁻⁵ in/in °F	2.70 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)	1.2 ft-lb/in.	64.1 J/m	ASTM D256
Tensile Strength @ Yield	15,000 psi	103.4 MPa	ASTM D638
Elongation @ Break	2%	2%	ASTM D638
Flexural Strength	24,700 psi	170.3 MPa	ASTM D790
Flexural Modulus, tangent	710,000 psi	4,897 MPa	ASTM D790
Heat Deflection Temperature			
@ 66 psi (0.455 MPa)	480 °F	249 °C	ASTM D648
@ 264 psi (1.82 MPa)	470 °F	243 °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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