



Technical Data Sheet

Phoenamide® N2600 MK40

40% Mineral Reinforced Polyamide (Nylon) Type 6/6

Date: January, 2008

General

Features	Excellent chemical resistance Excellent stiffness and dimensional stability
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	500 °F	260 °C	ASTM D789
Specific Gravity	1.48	1.48	ASTM D792
Water Absorption	0.70%	0.70%	ASTM D570
Linear Mold Shrinkage	0.007 in/in	0.007 mm/mm	ASTM D955
Hardness, Rockwell Scale	R122	R122	ASTM D785
Coefficient of Linear Thermal Expansion	2.70 x 10 ⁻⁵ in/in °F	4.86 x 10 ⁻⁵ cm/cm °C	ASTM D696
Reinforcement Content	40±2%	40±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	11,000 psi	75.9 MPa	ASTM D638
Elongation @ Break	4%	4%	ASTM D638
Flexural Strength	21,000 psi	144.8 MPa	ASTM D790
Flexural Modulus, tangent	975,000 psi	6,724 MPa	ASTM D790
Heat Deflection Temperature			
@ 66 psi (0.455 MPa)	435 °F	224 °C	ASTM D648
@ 264 psi (1.82 MPa)	375 °F	191 °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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