



# Technical Data Sheet

## Phoenistyr® S3600 G10

### 10% Glass Reinforced Styrene-Acrylonitrile (SAN) Copolymer

Date: January, 2008

#### General

Features	High Stiffness Excellent structural properties
Appearance	Off white opaque or pigmented Pellets
Processes	Injection molding

#### Typical Compound Properties<sup>(a)</sup>

Physical	Nominal Values		Test Methods <sup>(b)</sup>
	English Units	Metric Units	
Melt Flow Rate	4.0 g/10 min.	4.0 dg/min.	ASTM D1238, 5000 g. @ 200°C
Specific Gravity	1.15	1.15	ASTM D792
Linear Mold Shrinkage	0.002 in/in	0.002 mm/mm	ASTM D955
Hardness, Rockwell Scale	R121	R121	ASTM D785
Coefficient of Linear Thermal Expansion	1.80 x 10 <sup>-5</sup> in/in °F	3.24 x 10 <sup>-5</sup> cm/cm °C	ASTM D696
Water Absorption	0.12%	0.12%	ASTM D785
Reinforcement Content	10±2%	10±2%	ASTM D2584

#### Mechanical

Notched Izod Impact @ 73 °F (23 °C)	0.7 ft-lb/in.	37.4 J/m	ASTM D256
Tensile Strength @ Yield	11,500 psi	79.3 MPa	ASTM D638
Elongation @ Break	2%	2%	ASTM D638
Flexural Modulus, tangent	800,000 psi	5,517 MPa	ASTM D790
Heat Deflection Temperature			
@ 66 psi (0.455 MPa)	225 °F	107 °C	ASTM D648
@ 264 psi (1.82 MPa)	215 °F	102 °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.

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