



Technical Data Sheet

Phoenistyr® S3600

Styrene-Acrylonitrile (SAN) Copolymer

Date: January, 2008

General

Features	High Stiffness Excellent surface appearance Transparent in natural form
Appearance	Water white (clear) or pigmented Pellets
Processes	Injection molding

Typical Compound Properties^(a)

	Nominal Values		Test Methods ^(b)
Physical	English Units	Metric Units	
Melt Flow Rate	8.0 g/10 min.	8.0 dg/min.	ASTM D1238, 3800 g. @ 230°C
Specific Gravity	1.07	1.07	ASTM D792
Linear Mold Shrinkage	0.004 in/in	0.004 mm/mm	ASTM D955
Water Absorption	0.25%	0.25%	ASTM D570
Hardness, Rockwell Scale	M83	M83	ASTM D785
Coefficient of Linear Thermal Expansion	3.80 x 10 ⁻⁵ in/in °F	6.84 x 10 ⁻⁵ cm/cm °C	ASTM D696
Vicat Softening Point	230 °F	110 °C	ASTM D1525, Rate B, 50N load

Mechanical

Notched Izod Impact @ 73 °F (23 °C)	0.4 ft-lb/in.	21.4 J/m	ASTM D256
Tensile Strength @ Yield	10,500 psi	72.4 MPa	ASTM D638
Elongation @ Break	3%	3%	ASTM D638
Flexural Modulus, tangent	500,000 psi	3,448 MPa	ASTM D790
Heat Deflection Temperature			
@ 66 psi (0.455 MPa)	213 °F	101 °C	ASTM D648
@ 264 psi (1.82 MPa)	208 °F	98 °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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