



Technical Data Sheet

Phoenidur® A1100 G20

20% Glass Reinforced Acrylonitrile-Butadiene-Styrene Terpolymer (ABS)

Date: January, 2008

General

Features	Excellent stiffness Excellent dimensional stability
Appearance	Off white opaque or pigmented Pellets
Processes	Injection molding

Typical Compound Properties^(a)

Physical	Nominal Values		Test Methods ^(b)
	English Units	Metric Units	
Melt Flow Rate	0.7 g/10 min.	0.7 dg/min.	ASTM D1238, 3,800 g. @ 230°C
Specific Gravity	1.18	1.18	ASTM D792
Linear Mold Shrinkage	0.003 in/in	0.003 mm/mm	ASTM D955
Hardness, Rockwell Scale	R107	R107	ASTM D785
Coefficient of Linear Thermal Expansion	2.00 x 10 ⁻⁵ in/in °F	3.60 x 10 ⁻⁵ cm/cm °C	ASTM D696
Water Absorption	0.25%	0.25%	ASTM D785
Reinforcement Content	20±2%	20±2%	ASTM D2584

Mechanical

Notched Izod Impact @ 73 °F (23 °C)	1.6 ft-lb/in.	85.4 J/m	ASTM D256
Tensile Strength @ Yield	10,500 psi	72.4 MPa	ASTM D638
Elongation @ Yield	3%	3%	ASTM D638
Flexural Strength	16,000 psi	110.3 MPa	ASTM D790
Flexural Modulus, tangent	900,000 psi	6,207 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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