



# Technical Data Sheet

## Phoenidur® A1900

Acrylonitrile-Butadiene-Styrene Terpolymer (ABS) – Low Gloss

Date: January, 2008

### General

Features	Excellent impact to stiffness balance Excellent surface finish Reduced gloss
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	7.0 g/10 min.	7.0 dg/min.	ASTM D1238, 3,800 g. @ 230°C
Specific Gravity	1.05	1.05	ASTM D792
Linear Mold Shrinkage	0.006 in/in	0.006 mm/mm	ASTM D955
Hardness, Rockwell Scale	R112	R112	ASTM D785
Coefficient of Linear Thermal Expansion	4.50 x 10 <sup>-5</sup> in/in °F	8.10 x 10 <sup>-5</sup> cm/cm °C	ASTM D696
Water Absorption	0.40%	0.40%	ASTM D785

### Mechanical

Notched Izod Impact @ 73 °F (23 °C)	3.0 ft-lb/in.	160.2 J/m	ASTM D256
Tensile Strength @ Yield	6,800 psi	49.0 MPa	ASTM D638
Elongation @ Yield	60%	60%	ASTM D638
Flexural Strength	9,600 psi	66.2 MPa	ASTM D790
Flexural Modulus, tangent	335,000 psi	2,310 MPa	ASTM D790
Heat Deflection Temperature			
@ 66 psi (0.455 MPa)	201 °F	94 °C	ASTM D648
@ 264 psi (1.82 MPa)	180 °F	82 °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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