PHOENIX
Polymer Compounding LLC

Technical Data Sheet

Phoenidur® *A1100*

Acrylonitrile-Butadiene-Styrene Terpolymer (ABS)

Date: January, 2008

General			
Features	Excellent impact to stiffness balance Excellent surface finish High gloss		
Appearance	Off white opaque or pigmented Pellets		
Processes	Injection molding		
Typical Compound Properties[a]	***Nominal Values***		***Test Methods***[b]
Physical	**English Units**	**Metric Units**	
Melt Flow Rate	4.0 g/10 min.	4.0 dg/min.	ASTM D1238, 3800 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^{-5} in/in ºF	8.10 x 10^{-5} cm/cm ºC	ASTM D696
Water Absorption	0.40%	0.40%	ASTM D785
Mechanical			
Notched Izod Impact @ 73 ºF (23 ºC)	3.5 ft-lb/in.	186.9 J/m	ASTM D256
Tensile Strength @ Yield	6,200 psi	42.8 MPa	ASTM D638
Elongation @ Yield	35%	35%	ASTM D638
Flexural Strength	10,500 psi	72.4 MPa	ASTM D790
Flexural Modulus, tangent	350,000 psi	2,414 MPa	ASTM D790
Heat Deflection Temperature			
@ 66 psi (0.455 MPa)	195 ºF	91 ºC	ASTM D648
@ 264 psi (1.82 MPa)	185 ºF	85 ºC	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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