



Technical Data Sheet

Phoenisol® C1600 G10 10% Glass Reinforced Polycarbonate (PC)

Date: January, 2008

General

Features	Excellent impact to rigidity ratio Naturally flame resistant
Appearance	Off white or pigmented Pellets
Processes	Injection molding

Typical Compound Properties^(a)

Physical	Nominal Values		Test Methods ^(b)
	English Units	Metric Units	
Melt Flow Rate	7.0 g/10 min.	7.0 dg/min.	ASTM D1238, 1200 g. @ 300°C
Specific Gravity	1.27	1.27	ASTM D792
Linear Mold Shrinkage	0.003 in/in	0.003 mm/mm	ASTM D955
Hardness, Rockwell Scale	M80	M80	ASTM D785
Coefficient of Linear Thermal Expansion	1.80 x 10 ⁻⁵ in/in °F	3.24 x 10 ⁻⁵ 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)	2.2 ft-lb/in.	117.5 J/m	ASTM D256
Tensile Strength @ Yield	10,600 psi	73.1 MPa	ASTM D638
Elongation @ Yield	10%	10%	ASTM D638
Flexural Strength	18,000 psi	124.1 MPa	ASTM D790
Flexural Modulus, tangent	535,000 psi	3,690 MPa	ASTM D790
Heat Deflection Temperature			
@ 66 psi (0.455 MPa)	290 °F	143 °C	ASTM D648
@ 264 psi (1.82 MPa)	280 °F	138 °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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