



Technical Data Sheet

Phoenisol® C1600 G20 20% 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	4.0 g/10 min.	4.0 dg/min.	ASTM D1238, 1200 g. @ 300°C
Specific Gravity	1.34	1.34	ASTM D792
Linear Mold Shrinkage	0.003 in/in	0.003 mm/mm	ASTM D955
Hardness, Rockwell Scale	M92	M92	ASTM D785
Coefficient of Linear Thermal Expansion	1.60 x 10 ⁻⁵ in/in °F	2.88 x 10 ⁻⁵ cm/cm °C	ASTM D696
Water Absorption	0.10%	0.10%	ASTM D785
Reinforcement Content	20±2%	20±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	15,000 psi	103.4 MPa	ASTM D638
Elongation @ Yield	8%	8%	ASTM D638
Flexural Strength	18,500 psi	127.6 MPa	ASTM D790
Flexural Modulus, tangent	930,000 psi	6,414 MPa	ASTM D790
Heat Deflection Temperature			
@ 66 psi (0.455 MPa)	305 °F	151 °C	ASTM D648
@ 264 psi (1.82 MPa)	300 °F	148 °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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