



# Technical Data Sheet

## Phoensar® B1600 G15

### 15% Glass Reinforced Polybutylene Terephthalate (PBT)

Date: January, 2008

#### General

Features	Excellent stiffness Excellent dimensional stability Elevated temperature capability
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	
Specific Gravity	1.42	1.42	ASTM D792
Linear Mold Shrinkage	0.005 in/in	0.005 mm/mm	ASTM D955
Hardness, Rockwell Scale	R118	R118	ASTM D785
Coefficient of Linear Thermal Expansion	1.20 x 10 <sup>-5</sup> in/in °F	2.16 x 10 <sup>-5</sup> cm/cm °C	ASTM D696
Water Absorption	0.07%	0.07%	ASTM D785
Reinforcement Content	15±2%	15±2%	ASTM D2584

#### Mechanical

Notched Izod Impact @ 73 °F (23 °C)	1.1 ft-lb/in.	58.7 J/m	ASTM D256
Tensile Strength @ Yield	14,000 psi	96.6 MPa	ASTM D638
Elongation @ Yield	5%	5%	ASTM D638
Flexural Strength	21,000 psi	144.8 MPa	ASTM D790
Flexural Modulus, tangent	700,000 psi	4,828 MPa	ASTM D790
Heat Deflection Temperature @ 264 psi (1.82 MPa)	381 °F	194 °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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