



# Technical Data Sheet

## Phoensar® B2680 G45

45% Glass Reinforced Polyethylene-Terephthalate (PET) – Nucleated

Date: January, 2008

### General

Features	Excellent impact to stiffness balance Low water absorption Nucleated for faster molding cycles
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	1.69	1.69	ASTM D792
Linear Mold Shrinkage	0.002 in/in	0.002 mm/mm	ASTM D955
Hardness, Rockwell Scale	R120	R120	ASTM D785
Coefficient of Linear Thermal Expansion	1.00 x 10 <sup>-5</sup> in/in °F	1.80 x 10 <sup>-5</sup> cm/cm °C	ASTM D696
Water Absorption	0.04%	0.04%	ASTM D785
Reinforcement Content	45±2%	45±2%	ASTM D2584

### Mechanical

Notched Izod Impact @ 73 °F (23 °C)	2.0 ft-lb/in.	106.8 J/m	ASTM D256
Tensile Strength @ Yield	27,500 psi	189.7 MPa	ASTM D638
Elongation @ Yield	2%	2%	ASTM D638
Flexural Strength	38,000 psi	262.1 MPa	ASTM D790
Flexural Modulus, tangent	2,000,000 psi	13,793 MPa	ASTM D790
Heat Deflection Temperature @ 264 psi (1.82 MPa)	445 °F	229 °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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