



# Technical Data Sheet

## Phoeneos® P1600 G13

### 13% Glass Reinforced Polypropylene (PP) Homopolymer

Date: January, 2008

#### General

Features	Improved stiffness and high temperature capability Excellent chemical resistance Good balance of properties
Appearance	Off white or pigmented Pellets
Processes	Injection molding

#### Typical Compound Properties<sup>(a)</sup>

Physical	Nominal Values		Test Methods <sup>(b)</sup>
	English Units	Metric Units	
Melt Flow Rate	5.0 g/10 min.	5.0 dg/min.	ASTM D1238, 2160 g. @ 230°C
Melt Point	334 °F	168 °C	ASTM D789
Specific Gravity	0.99	0.99	ASTM D792
Linear Mold Shrinkage	0.007 in/in	0.007 mm/mm	ASTM D955
Hardness, Rockwell Scale	R92	R92	ASTM D785
Coefficient of Linear Thermal Expansion	2.80 x 10 <sup>-5</sup> in/in °F	5.04 x 10 <sup>-5</sup> cm/cm °C	ASTM D696
Reinforcement Content	13±2%	13±2%	ASTM D2584

#### Mechanical

Notched Izod Impact @ 73 °F (23 °C)	1.0 ft-lb/in.	53.4 J/m	ASTM D256
Tensile Strength @ Yield	6,500 psi	44.8 MPa	ASTM D638
Elongation @ Break	3%	3%	ASTM D638
Flexural Strength	7,400 psi	51.0 MPa	ASTM D790
Flexural Modulus, tangent	410,000 psi	2,828 MPa	ASTM D790
Heat Deflection Temperature			
@ 66 psi (0.455 MPa)	270 °F	132 °C	ASTM D648
@ 264 psi (1.82 MPa)	240 °F	116 °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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