



Technical Data Sheet

Phoeneos® P1600 GC30

30% Glass Coupled Polypropylene (PP) Homopolymer

Date: January, 2008

General

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

Typical Compound Properties^(a)

	Nominal Values		Test Methods ^(b)
Physical	English Units	Metric Units	
Melt Flow Rate	4.0 g/10 min.	4.0 dg/min.	ASTM D1238, 2160 g. @ 230°C
Melt Point	334 °F	168 °C	ASTM D789
Specific Gravity	1.13	1.13	ASTM D792
Linear Mold Shrinkage	0.003 in/in	0.003 mm/mm	ASTM D955
Hardness, Rockwell Scale	R95	R95	ASTM D785
Coefficient of Linear Thermal Expansion	2.10 x 10 ⁻⁵ in/in °F	3.78 x 10 ⁻⁵ cm/cm °C	ASTM D696
Reinforcement Content	30±2%	30±2%	ASTM D2584

Mechanical

Notched Izod Impact @ 73 °F (23 °C)	1.4 ft-lb/in.	74.7 J/m	ASTM D256
Tensile Strength @ Yield	11,500 psi	79.3 MPa	ASTM D638
Elongation @ Break	3%	3%	ASTM D638
Flexural Strength	12,500 psi	86.2 MPa	ASTM D790
Flexural Modulus, tangent	800,000 psi	5,517 MPa	ASTM D790
Heat Deflection Temperature			
@ 66 psi (0.455 MPa)	315 °F	157 °C	ASTM D648
@ 264 psi (1.82 MPa)	290 °F	143 °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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