



Technical Data Sheet

Phoeneos® P1600 GC40

40% 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	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	1.23	1.23	ASTM D792
Linear Mold Shrinkage	0.002 in/in	0.002 mm/mm	ASTM D955
Hardness, Rockwell Scale	R100	R100	ASTM D785
Coefficient of Linear Thermal Expansion	1.80 x 10 ⁻⁵ in/in °F	3.24 x 10 ⁻⁵ cm/cm °C	ASTM D696
Reinforcement Content	40±3%	40±3%	ASTM D2584

Mechanical

Notched Izod Impact @ 73 °F (23 °C)	1.8 ft-lb/in.	96.1 J/m	ASTM D256
Tensile Strength @ Yield	13,500 psi	93.1 MPa	ASTM D638
Elongation @ Break	3%	3%	ASTM D638
Flexural Strength	15,000 psi	103.4 MPa	ASTM D790
Flexural Modulus, tangent	1,100,000 psi	7,586 MPa	ASTM D790
Heat Deflection Temperature			
@ 66 psi (0.455 MPa)	335 °F	168 °C	ASTM D648
@ 264 psi (1.82 MPa)	310 °F	154 °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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