



Technical Data Sheet

Phoeneos® P1600 GC20

20% Glass Coupled Polypropylene (PP) Homopolymer

Date: January, 2008

General

Features	Very Good 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)

Physical	Nominal Values		Test Methods ^(b)
	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	1.04	1.04	ASTM D792
Linear Mold Shrinkage	0.004 in/in	0.004 mm/mm	ASTM D955
Hardness, Rockwell Scale	R94	R94	ASTM D785
Coefficient of Linear Thermal Expansion	2.40 x 10 ⁻⁵ in/in °F	4.32 x 10 ⁻⁵ cm/cm °C	ASTM D696
Reinforcement Content	20±2%	20±2%	ASTM D2584

Mechanical

Notched Izod Impact @ 73 °F (23 °C)	1.2 ft-lb/in.	64.1 J/m	ASTM D256
Tensile Strength @ Yield	8,500 psi	58.6 MPa	ASTM D638
Elongation @ Break	3%	3%	ASTM D638
Flexural Strength	12,000 psi	82.6 MPa	ASTM D790
Flexural Modulus, tangent	560,000 psi	3,862 MPa	ASTM D790
Heat Deflection Temperature			
@ 66 psi (0.455 MPa)	310 °F	154 °C	ASTM D648
@ 264 psi (1.82 MPa)	275 °F	135 °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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