



Technical Data Sheet

Phoeneos® P1600 MR32

32% Glass/Mineral Reinforced Polypropylene (PP) Homopolymer

Date: January, 2008

General

Features	Very Good dimensional stability Excellent chemical resistance Excellent balance of structural properties
Appearance	Tan or pigmented Pellets
Processes	Injection molding

Typical Compound Properties^(a)

Physical	Nominal Values		Test Methods ^(b)
	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	1.14	1.14	ASTM D792
Linear Mold Shrinkage	0.003 in/in	0.003 mm/mm	ASTM D955
Hardness, Rockwell Scale	R90	R90	ASTM D785
Coefficient of Linear Thermal Expansion	2.60 x 10 ⁻⁵ in/in °F	4.68 x 10 ⁻⁵ cm/cm °C	ASTM D696
Reinforcement Content	32±2%	32±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	8,000 psi	55.2 MPa	ASTM D638
Elongation @ Break	3%	3%	ASTM D638
Flexural Modulus, tangent	700,000 psi	4,828 MPa	ASTM D790
Heat Deflection Temperature			
@ 66 psi (0.455 MPa)	285 °F	141 °C	ASTM D648
@ 264 psi (1.82 MPa)	255 °F	124 °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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