



Technical Data Sheet

Phoeneos® P1600 MI12

12% Mica Reinforced Polypropylene (PP) Homopolymer

Date: January, 2008

General

Features	Very good dimensional stability Excellent chemical resistance Very Good balance of properties
Appearance	Light tan or pigmented Pellets
Processes	Injection molding

Typical Compound Properties^(a)

Physical	Nominal Values		Test Methods ^(b)
	English Units	Metric Units	
Melt Flow Rate	8.0 g/10 min.	8.0 dg/min.	ASTM D1238, 2160 g. @ 230°C
Melt Point	334 °F	168 °C	ASTM D789
Specific Gravity	1.00	1.00	ASTM D792
Linear Mold Shrinkage	0.010 in/in	0.010 mm/mm	ASTM D955
Hardness, Rockwell Scale	R90	R90	ASTM D785
Coefficient of Linear Thermal Expansion	3.50 x 10 ⁻⁵ in/in °F	6.30 x 10 ⁻⁵ cm/cm °C	ASTM D696
Reinforcement Content	12±2%	12±2%	ASTM D2584

Mechanical

Notched Izod Impact @ 73 °F (23 °C)	0.9 ft-lb/in.	48.1 J/m	ASTM D256
Tensile Strength @ Yield	4,500 psi	31.0 MPa	ASTM D638
Elongation @ Break	10%	10%	ASTM D638
Flexural Modulus, tangent	280,000 psi	1,931 MPa	ASTM D790
Heat Deflection Temperature			
@ 66 psi (0.455 MPa)	210 °F	98 °C	ASTM D648
@ 264 psi (1.82 MPa)	160 °F	71 °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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