



Technical Data Sheet

Phoeneos® P1600 MI40

40% Mica Reinforced Polypropylene (PP) Homopolymer

Date: January, 2008

General

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

Typical Compound Properties^(a)

	Nominal Values		Test Methods ^(b)
Physical	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	1.24	1.24	ASTM D792
Linear Mold Shrinkage	0.006 in/in	0.006 mm/mm	ASTM D955
Hardness, Rockwell Scale	R100	R100	ASTM D785
Coefficient of Linear Thermal Expansion	2.50 x 10 ⁻⁵ in/in °F	4.50 x 10 ⁻⁵ cm/cm °C	ASTM D696
Reinforcement Content	40±3%	40±3%	ASTM D2584

Mechanical

Notched Izod Impact @ 73 °F (23 °C)	0.7 ft-lb/in.	37.4 J/m	ASTM D256
Tensile Strength @ Yield	4,700 psi	32.4 MPa	ASTM D638
Elongation @ Break	3%	3%	ASTM D638
Flexural Modulus, tangent	600,000 psi	4,138 MPa	ASTM D790
Heat Deflection Temperature			
@ 66 psi (0.455 MPa)	275 °F	135 °C	ASTM D648
@ 264 psi (1.82 MPa)	207 °F	97 °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.

Manufacturer makes no warranties as to the fitness for any purpose or the merchantability of any products referred to herein, no guarantee of satisfactory results from any use of, or reliance upon the information or data contained herein, and no guarantee that the use of any product will not infringe any patent. Manufacturer hereby disclaims all liability for any loss or damage resulting from the use of information and data contained herein.