



Technical Data Sheet

Phoeneos® P1600

Polypropylene (PP) Homopolymer

Date: January, 2008

General

Features	Excellent chemical resistance Low water absorption Low density
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	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	0.905	0.905	ASTM D792
Linear Mold Shrinkage	0.015 in/in	0.015 mm/mm	ASTM D955
Water Absorption	0.03%	0.03%	ASTM D570
Hardness, Rockwell Scale	R98	R98	ASTM D785
Coefficient of Linear Thermal Expansion	5.38 x 10 ⁻⁵ in/in °F	9.70 x 10 ⁻⁵ cm/cm °C	ASTM D696

Mechanical

Notched Izod Impact @ 73 °F (23 °C)	0.8 ft-lb/in.	42.7 J/m	ASTM D256
Tensile Strength @ Yield	4,900 psi	33.8 MPa	ASTM D638
Elongation @ Yield	12%	12%	ASTM D638
Flexural Modulus, tangent	220,000 psi	1,517 MPa	ASTM D790
Heat Deflection Temperature			
@ 66 psi (0.455 MPa)	210 °F	99 °C	ASTM D648
@ 264 psi (1.82 MPa)	135 °F	57 °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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