



# Technical Data Sheet

## Phenom<sup>®</sup> O1600

### Polyacetal (POM) Homopolymer

Date: January, 2008

#### General

Features	Excellent chemical resistance Very low coefficient of friction and water absorption Higher heat capability than copolymer
Appearance	Off white or pigmented Pellets
Processes	Injection molding

#### Typical Compound Properties<sup>(a)</sup>

Physical	Nominal Values		Test Methods <sup>(b)</sup>
	English Units	Metric Units	
Melt Flow Rate	6.0 g/10 min.	15.0 dg/min.	ASTM D1238, 1050 g. @ 190°C
Melt Point	347 °F	175 °C	ASTM D789
Specific Gravity	1.42	1.42	ASTM D792
Water Absorption	0.22%	0.22%	ASTM D570
Linear Mold Shrinkage	0.022 in/in	0.022 mm/mm	ASTM D955
Hardness, Rockwell Scale	M94	M94	ASTM D785
Coefficient of Linear Thermal Expansion	5.80 x 10 <sup>-5</sup> in/in °F	1.04 x 10 <sup>-4</sup> cm/cm °C	ASTM D696

#### Mechanical

Notched Izod Impact @ 73 °F (23 °C)	1.5 ft-lb/in.	80.1 J/m	ASTM D256
Tensile Strength @ Yield	9,700 psi	66.9 MPa	ASTM D638
Elongation @ Break	250%	250%	ASTM D638
Flexural Strength	14,100 psi	96.6 MPa	ASTM D790
Flexural Modulus, tangent	435,000 psi	3,000 MPa	ASTM D790
Heat Deflection Temperature			
@ 66 psi (0.455 MPa)	324 °F	162 °C	ASTM D648
@ 264 psi (1.82 MPa)	205 °F	96 °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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