



Technical Data Sheet

Phoenitherm® H1500 MR60

60% Glass/Mineral Reinforced Polyphenylene Sulfide (PPS)

Date: January, 2008

General

Features	Excellent chemical resistance Superior high temperature performance Excellent dimensional stability
Appearance	Off white or pigmented Pellets
Processes	Injection molding

Typical Compound Properties^(a)

Physical	Nominal Values		Test Methods ^(b)
	English Units	Metric Units	
Specific Gravity	1.91	1.91	ASTM D792
Melt Point	536 °F	280 °C	ASTM D789
Water Absorption	0.02%	0.02%	ASTM D570
Linear Mold Shrinkage	0.002 in/in	0.002 mm/mm	ASTM D955
Hardness, Rockwell Scale	M100	M100	ASTM D785
Coefficient of Linear Thermal Expansion	1.06 x 10 ⁻⁵ in/in °F	1.91 x 10 ⁻⁵ cm/cm °C	ASTM D696
Reinforcement Content	60±3%	60±3%	ASTM D2584

Mechanical

Notched Izod Impact @ 73 °F (23 °C)	0.8 ft-lb/in.	42.7 J/m	ASTM D256
Tensile Strength @ Yield	16,200 psi	111.7 MPa	ASTM D638
Elongation @ Break	1%	1%	ASTM D638
Flexural Strength	25,500 psi	175.9 MPa	ASTM D790
Flexural Modulus, tangent	2,200,000 psi	15,172 MPa	ASTM D790
Heat Deflection Temperature			
@ 66 psi (0.455 MPa)	536 °F	280 °C	ASTM D648
@ 264 psi (1.82 MPa)	500 °F	260 °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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