



Technical Data Sheet

Phoenitherm® H1500 G30 30% Glass Reinforced Polyphenylene Sulfide (PPS)

Date: January, 2008

General

Features	Excellent chemical resistance Superior high temperature performance Low water absorption
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	1.56	1.56	ASTM D792
Melt Point	536 °F	280 °C	ASTM D789
Water Absorption	0.02%	0.02%	ASTM D570
Linear Mold Shrinkage	0.003 in/in	0.003 mm/mm	ASTM D955
Hardness, Rockwell Scale	R123	R123	ASTM D785
Coefficient of Linear Thermal Expansion	1.30 x 10 ⁻⁵ in/in °F	2.34 x 10 ⁻⁵ cm/cm °C	ASTM D696
Reinforcement Content	30±2%	30±2%	ASTM D2584

Mechanical

Notched Izod Impact @ 73 °F (23 °C)	1.5 ft-lb/in.	80.1 J/m	ASTM D256
Tensile Strength @ Yield	22,500 psi	155.2 MPa	ASTM D638
Elongation @ Break	1%	1%	ASTM D638
Flexural Modulus, tangent	1,600,000 psi	11,034 MPa	ASTM D790
Heat Deflection Temperature			
@ 66 psi (0.455 MPa)	535 °F	279 °C	ASTM D648
@ 264 psi (1.82 MPa)	505 °F	263 °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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