



# Technical Data Sheet

## Phoenithene® E2600 G40

### 40% Glass Reinforced High Density Polyethylene (HDPE)

Date: January, 2008

#### General

Features	Excellent chemical resistance Very good stiffness Very good elevated temperature capability
Appearance	Off white or pigmented Pellets
Processes	Injection molding

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

	Nominal Values		Test Methods <sup>(b)</sup>
Physical	English Units	Metric Units	
Melt Flow Rate	4.0 g/10 min.	4.0 dg/min.	ASTM D1238, 2160 g. @ 190°C
Melt Point	265 °F	129 °C	ASTM D789
Specific Gravity	1.28	1.28	ASTM D792
Linear Mold Shrinkage	0.0025 in/in	0.0025 mm/mm	ASTM D955
Hardness, Rockwell Scale	R90	R90	ASTM D785
Coefficient of Linear Thermal Expansion	2.20 x 10 <sup>-5</sup> in/in °F	3.96 x 10 <sup>-5</sup> cm/cm °C	ASTM D696
Reinforcement Content	40±3%	40±3%	ASTM D2584

#### Mechanical

Notched Izod Impact @ 73 °F (23 °C)	1.5 ft-lb/in.	80.1 J/m	ASTM D256
Tensile Strength @ Yield	9,000 psi	62.1 MPa	ASTM D638
Elongation @ Break	2%	2%	ASTM D638
Flexural Modulus, tangent	850,000 psi	5,862 MPa	ASTM D790
Heat Deflection Temperature			
@ 66 psi (0.455 MPa)	270 °F	132 °C	ASTM D648
@ 264 psi (1.82 MPa)	250 °F	127 °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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