



Technical Data Sheet

Phoenithene® E2700 High Density Polyethylene (HDPE)

Date: January, 2008

General

Features	Excellent chemical resistance Versatile balance of properties
Appearance	Off white or pigmented Pellets
Processes	Injection molding

Typical Compound Properties^(a)

Physical	Nominal Values		Test Methods ^(b)
	English Units	Metric Units	
Melt Flow Rate	15.0 g/10 min.	15.0 dg/min.	ASTM D1238, 2160 g. @ 190°C
Melt Point	265 °F	129 °C	ASTM D789
Specific Gravity	0.95	0.95	ASTM D792
Linear Mold Shrinkage	0.020 in/in	0.020 mm/mm	ASTM D955
Hardness, Shore	D65	D65	ASTM D785
Coefficient of Linear Thermal Expansion	2.40 x 10 ⁻⁵ in/in °F	1.68 x 10 ⁻⁴ cm/cm °C	ASTM D696

Mechanical

Notched Izod Impact @ 73 °F (23 °C)	1.0 ft-lb/in.	53.4 J/m	ASTM D256
Tensile Strength @ Yield	3,500 psi	24.1 MPa	ASTM D638
Elongation @ Break	600%	600%	ASTM D638
Flexural Modulus, tangent	120,000 psi	828 MPa	ASTM D790
Heat Deflection Temperature			
@ 66 psi (0.455 MPa)	157 °F	69 °C	ASTM D648
@ 264 psi (1.82 MPa)	130 °F	54 °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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