

TrenchSafe

BUILDING MATERIALS

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www.trenchsafe.com

Technical Data Sheet

High-Density Polyethylene (HDPE)

	Test Method	Unit	Guideline Value
General Properties			
Density	ASTM D792	g/cm ³	.953
Water Absorption	ASTM D570	%	<0.10
Mechanical Properties			
Hardness	ASTM D2240	Shore D	65
Tensile Strength at yield 73°F	ASTM D638	psi	4000
Elongation at Break	ASTM D638	%	>500
Flexural Strength	ASTM D790	psi	181000
Izod Impact, Notched	ASTM D256	ft-lb/in	3.5
Coefficient of Friction, Dynamic			0.20-0.29
Thermal Properties			
Coefficient of Linear Thermal Expansion	ASTM D696	in/in/°F x 10 ⁻⁵	6
Melting Point		°F	268
Maximum Service Temperature, Air		°F	180
Heat Deflection Temperature 264 PSI	ASTM D648	°F	165
Flammability, UL94		1/8 inch	HB
Electrical Properties			
Dielectric Constant	ASTM D150	1MHz	2.4
Surface resistivity	ASTM D257	Ω/cm	>10 ¹⁴

***The nominal properties reported are typical of the product but don't reflect testing variances. Therefore, they should be used as a guide and not specification purposes.