

TECHNICAL DATA SHEET

HIGH-DENSITY POLYETHYLENE (HDPE)



MADE IN AMERICA

TEST METHOD	UNIT	GUIDELINE VALUE
GENERAL PROPERTIES		
Density	g/cm ³	.953
Water Absorption	%	<0.10
MECHANICAL PROPERTIES		
Hardness	Shore D	65
Tensile Strength at yield 73°F	psi	4000
Elongation at Break	%	500
Flexural Strength	psi	181000
Izod Impact, Notched	ft-lb/in	3.5
Coefficient of Friction, Dynamic		0.20-0.29
THERMAL PROPERTIES		
Coefficient of Linear Thermal Expansion	in/in/°F x 10 ⁻⁵	6
Melting Point	°F	268
Maximum Service Temperature, Air	°F	180
Heat Deflection Temperature 264 PSI	°F	165
Flammability, UL94	1/8inch	HB
ELECTRICAL PROPERTIES		
Dielectric Constant	1MHz	2.4
Surface Resistivity	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.

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