

HI-PRO Material Specifications (HDPE)

Properties	Test Method	Unit	Test Result
<i>Physical Properties</i>	-	-	-
Density	ASTM D-792	g/cm ³	0.937-0.98
Water Absorption	ASTM D-570(2)	%	<0.01
Upper Temperature Limit	-	°C	90
Lower Temperature Limit	-	°C	-269
<i>Mechanical Properties</i>	-	-	-
Tensile Strength at Yield	ASTM D-638	MPa	>17
Tensile Strength at Break	ASTM D-638	MPa	>35
Elongation at Yield	ASTM D-638	%	12
Ultimate Elongation	ASTM D-638	%	>350
	ISO527		>400
Tensile Modulus	ASTM D-638	MPa	820
Izod Impact, Notched	ASTM D-256 Type A	KJ/m ²	No Break
Flexural Strength	ASTM D-790	MPa	26
Flexural Modulus	ASTM D-790	MPa	760
Compressive Strength (10%Def)	ASTM D-695	MPa	27
Compressive Modulus	ASTM D-695	MPa	550

Hardness (Shore D Hardness)	ASTM D-2240	Shore D	60-70
Static Friction Coefficient	ASTM D-1894	-	0.11-0.17
Dynamic Friction Coefficient	ASTM D-1894	-	0.07-0.11
Thermal Properties	-	-	-
Coefficient of Linear Expansion	ASTM D-696	10 ⁻⁴ /°C	1.5
Thermal Conductivity @23°C	ASTM D-177	W/m.k	0.4
Specific Heat @23°C	ASTM E-1269	Cal/g°C	0.48
Electrical Properties	-	-	-
Volume Resistivity	ASTM D-257	Ohm.cm	>10 ¹⁴
Surface Resistivity	ASTM D-257	Ohm	>10 ¹²
Dielectric Constant @1MHZ	ASTM D-150	-	2.3

The data mentioned in this brochure are average values ascertained by current statistical returns and tests, but we cannot accept any responsibility for their accuracy.



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