

ProLiner HDPE SMOOTH GEOMEMBRANE

DESCRIPTION

HDPE geomembranes have a generalised use as fundamental waterproofing materials of channels, dams & containment structures. HDPE is a non polar, semicrystalline thermoplastic material with good mechanical properties, high chemical stability & electrical insulation. ProLiner HDPE does not absorb humidity, is odourless & physically inert. ProLiner HDPE geomembranes are manufactured with resins which are specially formulated & certified.

HDPE smooth geomembranes have a minimum density of 0.94 g/cm³. HDPE smooth geomembranes have very low permeability, high stress resistance, high elongation at break and good chemical and UV resistance (2-3% carbon black) for the storage of liquids & solids.

Available in rolls of up to 300m long x 8.5m wide. Other roll dimensions available.

PROPERTIES	UNIT	TEST METHOD*	STANDARD 1.00MM	STANDARD 1.50MM	STANDARD 2.00MM	STANDARD 2.50MM
Thickness Average	mm		1.0	1.50	2.00	2.50
Min (-10%)	mm	ASTM D 5199	0.90	1.35	1.80	2.25
Density (min)	g/cm ³	ASTM D 5199	0.94	0.94	0.94	0.94
Tensile Properties:		ASTM D 792				
<i>Yield Strength</i>	kN/m	ASTM D 6693	15	22	29	37
<i>Break Strength</i>	kN/m	Type IV	27	40	53	67
<i>Yield Elongation</i>	%		12	12	12	12
<i>Break Elongation</i>	%		700	700	700	700
Tear Resistance	N	ASTM D 1004	125	187	249	311
Puncture Resistance	N	ASTM D 4833	320	480	640	800
Stress Crack Resistance	Hr	ASTM D 5397	300	300	300	300
Carbon Black Content	%	ASTM D 1603	2.0-3.0	2.0-3.0	2.0-3.0	2.0-3.0
Carbon Black Dispersion	Cat	ASTM D 5596	1-2	1-2	1-2	1-2
Oxidative Induction Time (OIT)	min	ASTM D 3895	100	100	100	100
Oven Ageing at 85°C <i>Standard OIT (90 days)</i>	%	ASTM D5721 D3895	55	55	55	55
UV Resistance <i>High Pressure OIT (1600 hours)</i>	%	GM 11 ASTM D5885	50	50	50	50



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