

ProLiner HDPE DOUBLE SIDED TEXTURED GEOMEMBRANE

DESCRIPTION

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

HDPE textured/textured geomembranes have a minimum density of 0.94 g/cm³. HDPE textured/textured 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. ProLiner HDPE textured/textured geomembranes offer improved frictional resistance of the liner on steep slopes as well as providing increased frictional resistance of cover materials above the liner.

Available in rolls of up to 240m 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	ASTM D 5994	0.95	1.425	1.90	2.375
Thickness Minimum (-10%)	mm	ASTM D 5994	0.85	1.275	1.70	2.125
Asperity Height (min avg.)	mm	GM 12	0.25	0.25	0.25	0.25
Density (min)	g/cm ³	ASTM D 792	0.94	0.94	0.94	0.94
Tensile Properties:		ASTM D 6693				
Yield Strength	kN/m	Type IV	15	22	29	37
Break Strength	kN/m		10	16	21	26
Yield Elongation	%		12	12	12	12
Break Elongation	%		100	100	100	100
Tear Resistance	N	ASTM D 1004	125	187	249	311
Puncture Resistance	N	ASTM D 4833	267	400	534	667
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 Standard OIT (90 days)	%	ASTM D5721 ASTM D3895	55	55	55	55
UV Resistance High Pressure OIT (1600 hours)	%	GM 11 ASTM D5885	50	50	50	50



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ProLiner is manufactured to ISO9001, quality assurance procedure. Properties of ProLiner are minimum typical roll values unless otherwise noted. (GM) refers to the Geosynthetic Research Institute GRI-USA.

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