

ProLiner® HDPE DOUBLE SIDED TEXTURED GEOMEMBRANE

LINING SYSTEMS

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 125m long x 8m wide for 1mm thick product. All product is available in 8m width and roll length decreases with thickness increase.

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	ASTM D 7466	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:						
Yield Strength	kN/m	ASTM D 6693 (Type IV)	15	22	29	37
Break Strength	kN/m		10	16	21	26
Yield Elongation	%		13	13	13	13
Break Elongation	%		200	200	200	200
Tear Resistance	N	ASTM D 1004	125	191	254	317
Puncture Resistance	N	ASTM D 4833	294	440	587	734
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 a registered trademark of Global Synthetics Pty Ltd.
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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