

ProLiner® HDPE SINGLE SIDED TEXTURED GEOMEMBRANE

DESCRIPTION

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

HDPE smooth/textured geomembranes have a minimum density of 0.94 g/cm³. HDPE smooth/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 smooth/textured geomembranes offer improved frictional resistance of the liner on steep slopes. All ProLiner HDPE geomembranes are manufactured to exceed the requirements of GRI GM13 standards. Available in rolls of up to 150m long 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 Min (-10%)	mm	ASTM D 5994	0.85	1.275	1.70	2.125
Asperity Height (min avg.)	mm	ASTM D 7466	0.4	0.4	0.4	0.4
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		16	25	35	45
Yield Elongation	%		13	13	13	13
Break Elongation	%		400	400	400	400
Tear Resistance	N	ASTM D 1004	125	191	254	317
Puncture Resistance	N	ASTM D 4833	305	440	587	735
Stress Crack Resistance	Hr	ASTM D 5397	600	600	600	600
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) or High Pressure OIT (90 days)	%	ASTM D5721 ASTM D3895	55 80	55 80	55 80	55 80
UV Resistance High Pressure OIT (1600 hours)	%	GM 11 ASTM D5885	50	50	50	50



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- Lining Systems**

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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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