

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.

Available in rolls of up to 250m 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 Min (-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	%		250	250	250	250
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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SYDNEY

P: (02) 9631 0744
F: (02) 9631 0755
E: info@globalsynthetics.com.au

BRISBANE

P: (07) 3865 7000
F: (07) 3865 4444

PERTH

P: (08) 9459 4300
F: (08) 9459 4311

www.globalsynthetics.com.au