

ProLiner® HDPE Liner Range Double Side Textured

HDPE Double Side Textured Geomembrane

For high friction lining of channels, dams & liquid containment structures



Product Information

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. The product offers improved frictional resistance of the liner on steep slopes, as well as providing increased frictional resistance of cover materials above the liner.

All ProLiner® HDPE geomembranes are manufactured to exceed the requirements of GRI GM13 standards. All product is available in 8m width and roll length decreases with thickness increase.

Features

- Black/white geomembrane is now available
- Economical alternatives to traditional containment methods
- Quality products
- Smooth or textured varieties
- Ultra-wide rolls to minimise installation costs
- Wide choice of membranes to suit the application

ProLiner® HDPE Double Textured

Product Data Sheet

Product Grade

Properties	Unit	Test Method	Standard 1.50mm	Standard 2.00mm	Standard 2.50mm
Thickness (average)	mm	ASTM D 5994	1.425	1.90	2.375
Thickness Min (-10%)	mm	ASTM D 5994	1.275	1.70	2.125
Asperity Height (min avg.)	mm	ASTM D 7466	0.4	0.4	0.4
Density (min)	g/cm ³	ASTM D 792	0.94	0.94	0.94
Tensile Properties:					
Yield Strength	kN/m		22	29	37
Break Strength	kN/m	ASTM D 6693	25	35	45
Yield Elongation	%	(Type IV)	13	13	13
Break Elongation	%		350	350	350
Tear Resistance	N	ASTM D 1004	191	254	317
Puncture Resistance	N	ASTM D 4833	440	587	734
Stress Crack Resistance	Hr	ASTM D 5397	600	600	600
Carbon Black Content	%	ASTM D 1603	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
Oxidative Induction Time (OIT)	min	ASTM D 3895	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
UV Resistance High Pressure OIT (1600 hours)	%	GM 11 ASTM D5885	50	50	50
Roll Sizes	m	-	8x90	8x70	8x50

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Available in rolls of up to 125m long for 1mm thick product. All product is available in 8m width and roll length decreases with thickness increase.

About Us

Leaders in Geosynthetics

Global Synthetics is a 100% Australian-owned company, proud to offer a complete range of high-quality geosynthetic products backed by over 200 years of combined staff experience in the industry.

We have supplied products to some of the largest recent infrastructure works in Australia. Global Synthetics provides major benefits to any geotechnical engineering project with the right products and our technical expertise.

Global Synthetics products are used in the following applications:

- Pavement Stabilisation
- Ground Improvement
- Soil Reinforcement and Retaining Structures
- Water Management
- Drainage Systems & Hydraulic Works
- Landfills
- Coastal Erosion Structures

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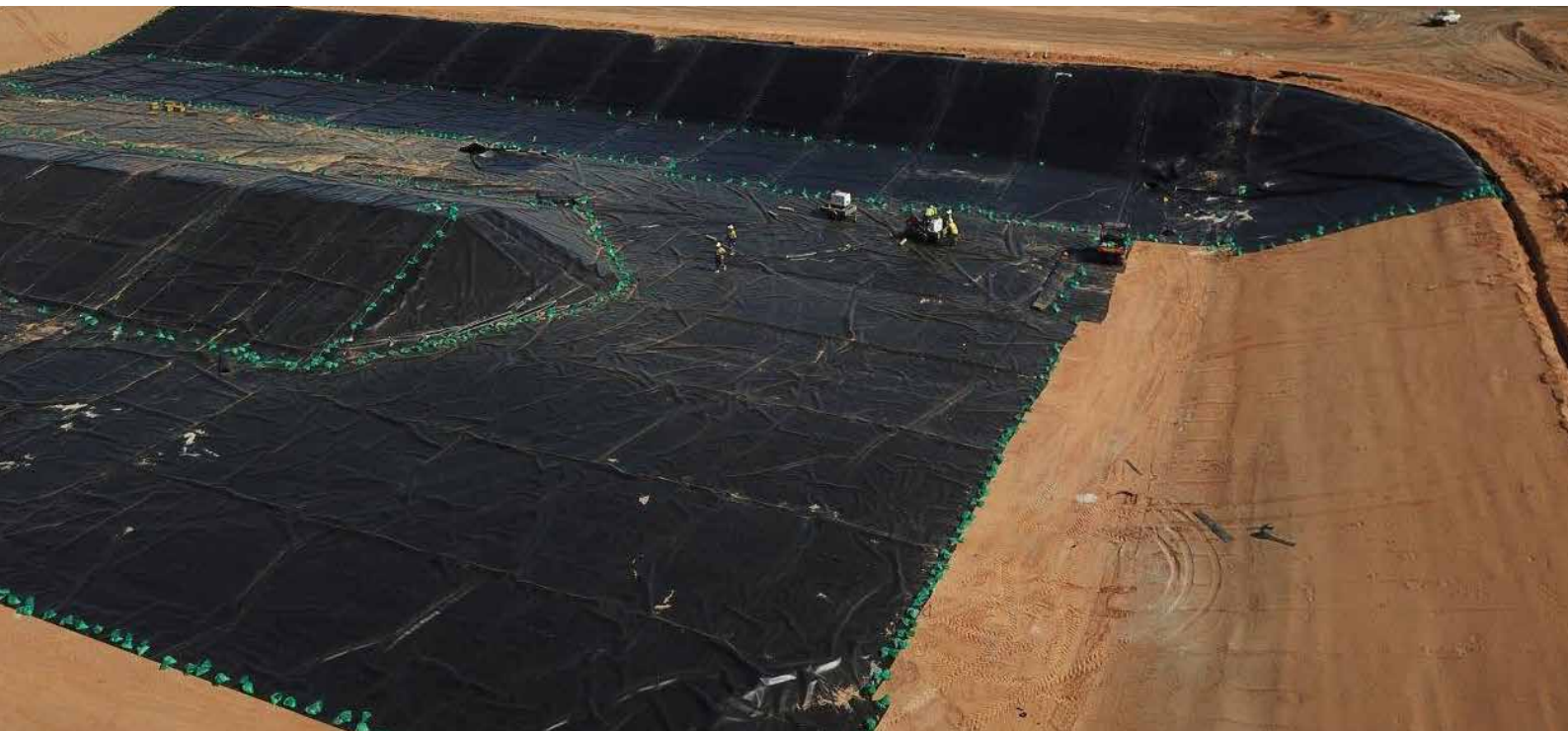
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