

ProLiner LLDPE SINGLE SIDED TEXTURED GEOMEMBRANE

DESCRIPTION

LLDPE smooth/textured geomembranes have a generalised use as high friction lining materials for leachate pads, channels, dams & containment structures. LLDPE is a polymer with very short & uniform branches which make its melt temperature, tensile strength & cracking resistance superior to LDPE. ProLiner LLDPE is a non polar, semicrystalline thermoplastic with good mechanical properties, high chemical stability & electrical insulation. ProLiner LLDPE does not absorb humidity, is odourless & is physically inert. ProLiner LLDPE geomembranes are manufactured with resins which are specially formulated & certified.

LLDPE smooth/textured geomembranes have a density from 0.928 - 0.939 g/cm³. ProLiner LLDPE smooth/textured geomembranes have low permeability, high stress resistance & flexibility, high break elongation & good chemical & UV resistance (2-3% carbon black). ProLiner LLDPE 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 (-5%)	mm	ASTM D 5199	0.95	1.425	1.9	2.375
Thickness Minimum (-15%)	mm	ASTM D 5199	0.85	1.275	1.70	2.125
Asperity Height (min avg.)	mm	GM 12	0.25	0.25	0.25	0.25
Density (max)	g/cm ³	ASTM D 792	0.939	0.939	0.939	0.939
Tensile Properties:		ASTM D 6693				
<i>Break Strength</i>	kN/m	Type IV	11	16	21	26
<i>Break Elongation</i>	%		250	250	250	250
2% Modulus (max)	N/mm	ASTM D 5323	420	630	840	1050
Tear Resistance	N	ASTM D 1004	100	150	200	250
Puncture Resistance	N	ASTM D 4833	200	300	400	500
Axi-Symmetric Break Resistance Strain (min)	%	ASTM D 5617	30	30	30	30
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 <i>Standard OIT (90 days)</i>	%	ASTM D 5721 ASTM D 3895	35	35	35	35
UV Resistance <i>High Pressure OIT (1600 hours)</i>	%	GM 11 ASTM D 5885	35	35	35	35



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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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