

ENVIRO™ GEOLINER™

LLDPE GEOMEMBRANE



PRODUCT SPECIFICATION*

Type	GMLD-SS								Both sides Smooth	
LLDPE Geo-membrane conforming to GRI-GM 17, ASTM Testing standards									Width	2.0-7.0m
Thickness Nominal (mil)	0.5	0.75	1.0	1.25	1.5	2.0	2.5	3.0		Test Std.
Tolerance (%)	-10	-10	-10	-10	-10	-10	-10	-10		D5199
Density (g/cc) ≥	0.939									D1505
Break Strength, kN/m ≥	13	20	27	33	40	53	66	80		
Break Elongation%	800%									
2% modulus (N/mm) ≥	210	370	420	520	630	840	1050	1260		D 5323
Tear resistance (N) ≥	50	70	100	120	150	200	250	300		D1004
Puncture resistance (N) ≥	120	190	250	310	370	500	620	750		D4833
Axy symmetric Break Resistance Strain %	30									D5617
Carbon Black Content (%)	2.0 – 3.0									D1603
Oxidative Induction time (OIT) - Std OIT (min)	100									D3895
- High pressure OIT (min)	400									D5885
UV resistance-% retained after 90 days	35									D3895
UV resistance-% retained after 1600 hours	60									D5885

Type	GMLD-ST								One side Smooth- one side Textured	
LLDPE Geo-membrane conforming to GRI-GM 17, ASTM Testing standards									Width	2.0-7.0m
Thickness Nominal (mil)	0.50	0.75	1.0	1.25	1.5	2.0	2.5	3.0		Test Std.
Tolerance (%)	-10/-15									D5199
Density (g/cc) ≥	0.939									D1505
Break Strength, kN/m ≥	5	9	11	13	16	21	26	31		
Break Elongation%	250%									
2% modulus (N/mm) ≥	210	370	420	520	630	840	1050	1260		D 5323
Tear resistance (N) ≥	50	70	100	120	150	200	250	300		D1004
Puncture resistance (N) ≥	100	150	200	250	300	400	500	600		D4833
Stress Crack resistance	30									D5617
Carbon Black Content (%)	2.0 – 3.0									D1603
Oxidative Induction time (OIT) - Std OIT (min)	100									D3895
- High pressure OIT (min)	400									D5885
UV resistance-% retained after 90 days	35									D3895
UV resistance-% retained after 1600 hours	60									D5885

* Types available : Both sides smooth (SS), Smooth-Textured (ST), Both sides Textured (TT)

CHARACTERISTICS*	Enviro GMLD-SS both sides Smooth Geomembrane products are produced using select Linear Low Density Polyethylene (LLDPE) resin using advanced multilayer extrusion technology, stabilized against UV degradation. These LLDPE geomembrane products are flexible and ductile, and are inert against normally occurring acids, alkalis and mineral salt present in soil, unaffected when used within Pulverised Fuel Ash (Fly Ash), and is stable in normally occurring environment of waste and landfills, sewage treatment plants etc. Being non-food supplement, it is non-nutrient to micro-organism and rodents.
PRODUCT LIFE	Enviro GMLD-SS both side Smooth Geomembranes products have characteristic properties to allow it to be used in lining applications with appropriate design considerations, for sustained design life in the medium terms
APPLICATIONS	Enviro GMLD-SS both side Smooth Geomembranes are used extensively as lining and waterproofing, such as canal and reservoir lining, slope lining with varied contours, lining of liquid waste landfills, Tunnel lining, water proofing applications etc.

ENVIRO™ & GEOLINER™ are registered Trade Marks
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Assuring Sustainable Environment