

ENVIRO™ GEOLINER™

HDPE GEOMEMBRANE



PRODUCT SPECIFICATION*

Type	GMHD-SS								Both sides Smooth		
HDPE Geomembrane conforming to GRI-GM 13, 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) ≥	0.940										D1505
Yield Strength (kN/m) ≥	7	11	15	18	22	29	37	44			D6693-IV
Yield Elongation (%)	12%										
Break Strength, kN/m ≥	13	20	27	33	40	53	67	80			
Break Elongation%	700%										
Tear resistance (N) ≥	62	93	125	156	187	249	311	374			D1004
Puncture resistance (N) ≥	160	240	320	400	480	640	800	960			D4833
Stress Crack resistance	300 Hr										D5397
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	55%										D3895
UV resistance-% retained after 1600 hours	80%										D5885

Type	GMHD-ST								One side Smooth- one side Textured		
HDPE Geomembrane conforming to GRI-GM 13, ASTM Testing standards										Width	2.0-7.0m
Thickness Nominal (mil)		0.75	1.0	1.25	1.5	2.0	2.5	3.0			Test Std.
Tolerance (%)	-10/-15										D5199
Asperity height (mil) ≥	0.25										
Density (g/cc) ≥	0.940										D1505
Yield Strength (kN/m) ≥		11	15	18	22	29	37	44			D6693-IV
Yield Elongation (%)	12%										
Break Strength, kN/m ≥		8	10	13	16	21	26	32			
Break Elongation%	100%										
Tear resistance (N) ≥		93	125	156	187	249	311	374			D1004
Puncture resistance (N) ≥		200	267	333	400	534	667	800			D4833
Stress Crack resistance (hr)≥	300										D5397
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	55										D3895
UV resistance-% retained after 1600 hours	80										D5885

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

CHARACTERISTICS*	Enviro GMHD-both Geomembrane products are produced using select High Density Polyethylene (HDPE) resin using advanced multilayer extrusion technology, stabilized against UV degradation. These HDPE Geomembrane products 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 GMHD - 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 to long terms
APPLICATIONS	Enviro GMHD - Geomembranes are used extensively as lining and waterproofing, such as canal and reservoir lining, lining of solid and liquid waste landfills and landfill capping, Tunnel lining, water proofing applications etc.

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