



**MAHARSHEE GEOMEMBRANE (INDIA) PVT. LTD.**

**AN ISO 9001:2008 COMPANY**

Geomembrane

## THE COMPANY

MGIPL an 9001-2008 company first Geomembrane manufacture of three layer co-extruder blown film plant. We have complete range of products, textured and smooth HDPE, LDPE and LLDPE Film/Sheet/Liner, having long term durability of strength, flexibility, UV and chemical resistance, extensive range of products most widely used in civil and agricultural fields, irrigation, water and solid waste management, fluid conveyance and containment, ash ponds, soil protection and stabilization, land fills clousers, ponds and reservoirs, irrigation canals and waste treatment plants.

MGIPL is the largest and only three layer co-extruder blow film/Geomembrane width 7 mtrs and thickness upto 2.5mm, with highest mechanical properties. We are the largest supplier and installer of Geomembrane in india.



## PRODUCTS AND SERVICES

MGIPL is more than a company or product, it is complete service caterer of Geosynthetics, technical expertise and materials design to solve typical geotechnical and environmental engineering problems. MGIPL constantly embraces technologies and innovation and is the industry standard for Geosynthetic. MGIPL undertakes Turnkey projects for landfill sites, raw water reservoir, canal, reinforcement solution through Geosynthetics. **Apart form these we are also supplier and installer of Geotextile (Woven and Non Woven) Geogrid, Gabion boxes, Geosynthetics Clay liner, Geonet, Green House Film and HDPE pipes...**

## PRODUCT APPLICATION :

Geomembrane can be used in environmental, geotechnical, hydraulic and transportation activities as .....

- Liners for water conveyance canals | water reservoirs | brine solutions | solar ponds | waste conveyance | radioactive waste liquid | secondary containment of underground storage tank | etc.
- Seepage control within zoned earth dam and water proofing in coffer dam
- Covers for solid waste land fields | waste liquid | pollution prevention
- Structural support as temporary dam
- To line canal | swimming pool | tannery waste treatment ponds | acid tanks | floors | etc

### MG IPL HDPE Smooth Geomembrane

Property	Test Method	MD 500	MD 750	MD 1000	MD 1500	MD 2000
Minimum Average Values						
Thickness, mm	ASTM D 5199	0.50	0.75	1.0	1.5	2.0
Density, g/cm <sup>3</sup>	ASTM D1505	0.94	0.94	0.94	0.94	0.94
Tensile properties (each direction)	ASTM D6693					
1. Strength at Yield, kN/m width	Type IV specimen	9	12	16	26	34
2. Strength at Break, kN/m width	@50 mm/min	14	21	28	44	58
3. Elongation at Yield, %	G.L.33mm	14	14	14	14	14
4. Elongation at Break, %	G.L.51mm	800	800	800	800	800
Tear Resistance, N	ASTM D 1004	74	100	140	210	275
Puncture Resistance, N	ASTM D 4833	176	265	325	490	650
Carbon Black Content, %	ASTM D 1603	2.5	2.5	2.5	2.5	2.5
Carbon Black Dispersion	ASTM D 5596	Satisfactory	Satisfactory	Satisfactory	Satisfactory	Satisfactory
Width		7mtr	7mtr	7mtr	6mtr	5mtr

### MG IPL TEXTURED Geomembrane

Property	Test Method	MX 750	MX 1000	MX 1500	MX 2000
Minimum Average Values					
Thickness, mm	ASTM D 5994	0.75	1.0	1.5	2.0
Density, g/cm <sup>3</sup>	ASTM D1505	0.94	0.94	0.94	0.94
Tensile properties (each direction)	ASTM D6693				
1. Strength at Yield, kN/m width	Type IV specimen	11	15	23	30
2. Strength at Break, kN/m width	@50 mm/min	8	13	16	21
3. Elongation at Yield, %	G.L.33mm	13	13	13	13
4. Elongation at Break, %	G.L.50mm	100	100	100	100
Tear Resistance, N	ASTM D 1004	98	135	200	250
Puncture Resistance, N	ASTM D 4833	240	280	415	535
Carbon Black Content, %	ASTM D 1603	2.5	2.5	2.5	2.5
Carbon Black Dispersion	ASTM D 5596	Satisfactory	Satisfactory	Satisfactory	Satisfactory
Width		7mtr	7mtr	6mtr	5mtr

### MG IPL LLDPE SMOOTH Geomembrane

Property	Test Method	ML 500	ML 750	ML 1000	ML 1500	ML 2000
Minimum Average Values						
Thickness, mm	ASTM D 5199	0.50	0.75	1.0	1.5	2.0
Density, g/cm <sup>3</sup>	ASTM D1505	0.92	0.92	0.92	0.92	0.92
Tensile properties (each direction)	ASTM D6693					
1. Strength at Break, kN/m width	Type IV specimen @50 mm/min	14	20	27	40	55
2. Elongation at Break, %	G.L.50mm	800	800	800	800	800
Tear Resistance, N	ASTM D 1004	50	70	110	150	200
Puncture Resistance, N	ASTM D 4833	125	190	250	380	500
Carbon Black Content, %	ASTM D 1603	2.5	2.5	2.5	2.5	2.5
Carbon Black Dispersion	ASTM D 5596	Satisfactory	Satisfactory	Satisfactory	Satisfactory	Satisfactory
Width		7mtr	7mtr	7mtr	6mtr	5mtr

Disclaimer : The data is provided for reference purpose only. MG IPL assumes no liability with the use of this information. We reserve our right to change the specifications contained here in without notice.

## QUALITY CONTROL ASSURANCE

### Quality Policy

We shall strive to achieve customer satisfaction through consistent quality, timely product delivery & competitive pricing as a result of continuous improvement in quality & productivity by establishing ISO 9001 : 2008 quality management system.



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