

## TEST CERTIFICATE

**Product : HDPE WOVEN LAMINATED GEOMEMBRANE**

**Product Code : MG300**

**Type I (As per IS: 15351:2015)**

**Thickness: 0.3 mm**

S.No.	Clause No.	TEST	SPECIFIED REQUIREMENT	RESULT OBTAINED
1	3.1	HDPE Fabric (Tape)	Tape shall be manufactured from HDPE Granules which shall be UV Stabilized.	Confirmed
		Width of tape (mm)	Min.1.20 to 5mm max.	2.52
		Linear Density of Tape (Denier)	Min.800	892
2	5.1.1	i) Lamination	The lamination of the fabric shall be done on both sides with LDPE film or combination of LDPE and LLDPE	Confirmed
		ii) Coating Thickness (micron)	Min. 25	29
		iii) Carbon Black content (%)	2.5±0.5 %	2.62
		iv) Carbon black dispersion	Shall be satisfactory	Satisfactory
3	5.1.2	HDPE Fabric Layers	Shall be two or more layers of fabric	2
		Sandwich Lamination coating thickness(micron )	Min. 35	42
	5.3	Joint/Seams ( cm )	Min. 2.5	4.1
4	6.1	Workmanship	The Geomembrane shall be uniform in colour, Texture and finish. It shall be free from pinholes, undispersed raw material, particles of foreign matter, etc. and the laminated film shall not peel off from the	Satisfactory
5	6.2 Table 1	i) Thickness ( mm )	Min.mm	0.34
6		ii) Mass ( g/m <sup>2</sup> )	Min.250 g/m <sup>2</sup>	254
7		iii) Carbon Black content (%)	2.5±0.5	2.67
8		iv) Breaking load on 20x10 cm strip. ( N )		
		a) Warpway	Warpway Min. 3000	5246
		b) Weftway	Weftway Min. 3000	4978
9		v) Strain at Max. Load ( % )	20±5	20
10		vi) Impact Failure Loadat 1524 mm drop, Min. gramforce at 50% failure	Shall be no sign of failure at Min. 1150 gf	1220
11		vi) Tear resistance (N)	Min. 100	164
12		vii) Puncture resistance (N)	Min. 300	346
13		vii) Bursting Strength (Ball burst) (N/cm <sup>2</sup> )	Min. 60	72
14		ix) Seam Strength before UV exposure ( N/mm)	Min. 15	18
15		x) Hydrostatic Resistance	Shall be no leakage at 20.0 Kg/cm <sup>2</sup>	Confirmed 10.0
16		Ash content percent. (%)	Max. 1.0	0.52

\*The product conforms to the above specification

\*This documents shall not be published/reproduced for advertisement purpose



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