

TEST CERTIFICATE

Product : HDPE WOVEN LAMINATED GEOMEMBRANE

Product Code : MG1000


Type II (As per IS: 15351:2015)

Thickness: 1 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.1.2 mm (Max)	1.29 mm
		Linear Density of Tape (Denier)	800 Denier	1050
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)	25 (Mic) Min.	28 Mic.
		iii) Carbon Black content (%)	2.5±0.5 %	2.4%
		iv) Carbon black dispersion	Shall be satisfactory	Satisfactory
3	5.1.2	HDPE Fabric Layers	Shall be two or more layers of fabric	3
		Sandwich Lamination coating thickness(micron)	35 Mic.	40 Mic.
	5.3	Joint/Seams (cm)	Min. 2.5 cm	3.4 Cm Pass
4	6.1	Workmanship	Shall be satisfactory	Satisfactory
5	6.2 Table 1	i) Thickness (mm)	1.00 mm (Min)	1.04 mm Pass
6		ii) Mass (g/m ²)	Min.950 g/m ²	980 g/m ² Pass
7		iii) Carbon Black content (%)	2.5±0.5	2.32% Pass
8		iv) Breaking load on 20x10 cm strip. (N)		
		a) Warpway	Warpway Min. 10700	10754 N.
		b) Weftway	Weftway Min. 9700	9785 N.
9		v) Strain at Max. Load (%)	20±5	21%
10		vi) Impact Failure Load at 1524 mm drop, Min. gramforce at 50% failure	Shall be no sign of failure at Min.4025 gf	5000 gms Pass
11		vi) Tear resistance (N)	350 N (Min.)	360 N Pass
12		vii) Puncture resistance (N)	900 N (Min.)	940 N Pass
13		vii) Bursting Strength (Ball burst) (N/cm ²)	200 N/Cm ² Min.	250 N/Cm ² Min.
14		ix) Seam Strength before UV exposure (N/mm)	42 N/Cm ² Min.	45 N/Cm ² Min.
15		x) Hydrostatic Resistance	Shall be no leakage at 25.0 kg/ cm ²	28 kg/ cm ² Min. Pass
16		Ash content percent. (%)	1.0% Max	0.8% Pass

*The product conforms to the above specification

*This documents shall not be published/reproduced for advertisement purpose


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