

TEST CERTIFICATE

Product : HDPE WOVEN LAMINATED GEOMEMBRANE

Product Code : MG750


Type III (As per IS: 15351:2015)

Thickness: 0.75 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.	3.20
		Linear Density of Tape (Denier)	Min.800	1146
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	27
		iii) Carbon Black content (%)	2.5±0.5 %	2.56
		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)	Min. 35	42
	5.3	Joint/Seams (cm)	Min. 2.5	4.3
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. 0.75	0.77
6		ii) Mass (g/m ²)	Min. 650	652
7		iii) Carbon Black content (%)	2.5±0.5	2.57
8		iv) Breaking load on 20x10 cm strip. (N)		
		a) Warpway	Warpway Min. 8200	13270
		b) Weftway	Weftway Min. 7400	12631
9		v) Strain at Max. Load (%)	20±5	22.0
10		vi) Impact Failure Load at 1524 mm drop, Min. gramforce at 50% failure	Shall be no sign of failure at Min. 2875 gf	passed 2913
11		vi) Tear resistance (N)	Min. 300	343
12		vii) Puncture resistance (N)	Min. 725	744
13		vii) Bursting Strength (Ball burst) (N/cm ²)	Min. 135	144
14		ix) Seam Strength before UV exposure (N/mm)	Min. 40	47
15		x) Hydrostatic Resistance	Shall be no leakage at 20.0 Kg/cm ²	Confirmed 20
16		Ash content percent. (%)	Max. 1.0	0.80

*The product conforms to the above specification

*This documents shall not be published/reproduced for advertisement purpose


Priyanka Kamble
Laboratry Incharge

