

# G-Meb™ ST Range

## Technical Data Sheet

GEO-LINK ST 11<sup>th</sup> Dec. 2009

G-Meb™ HD ST Geomembranes are one-side textured, produced from high density polyethylene (HDPE), it has a good quality premium, flexible geomembrane. (E.M.B.: Every materials batch)

Property	Test Method	Frequency	Specification			
Product Code			ST100	ST150	ST200	ST250
Thickness, (minimum average) mm	ASTM D 5994	Every roll	1.00	1.50	2.00	2.50
Lowest individual for 8 out of 10 values			0.91	1.35	1.80	2.30
Lowest individual reading (-10%)			0.86	1.28	1.73	2.16
Asperity Height <sup>1</sup> , mm	GRI-GM 12	Second roll	0.25	0.25	0.25	0.25
Density, g/cc	ASTM D 1505	90,000Kgs	0.94	0.94	0.94	0.94
Tensile Properties (each direction) <sup>2</sup>	ASTM D 6693, TypeIV	9,000Kgs				
Strength at Break, N/mm	Dumbell, 2 ipm		11	16	21	27
Strength at Yield, N/mm			15	22	29	37
Elongation at Break, %	G.L.2.0 in (50mm)		700	700	700	700
Elongation at Yield, %	G.L.1.3 in (33mm)		14	14	14	14
Tear Resistance, N	ASTM D1004	20,000Kgs	125	187	249	311
Puncture Resistance, N	ASTM D4833	20,000Kgs	267	400	534	667
Carbon Black Content, %	ASTM D1603*/4218	9,000Kgs	2	2	2	2
Carbon Black Dispersion	ASTM D5596	20,000Kgs	+Notel	+Notel	+Notel	+Notel
Notched Constant Tensile Load <sup>3</sup> , hr	ASTM D5397, Appendix	90,000Kgs	300	300	300	300
Oxidative Induction Time, min	ASTM D3895, 200°C, 1 atm	90,000Kgs	100	100	100	100
Oven Aging at 85°C	ASTM D5721					
Standard OIT, retained after 90 days, %	ASTM D3895	E.M.B.	55	55	55	55
UV Resistance High Pressure OIT, retained after 1600 hours (min. avg), %	ASTM D5885	E.M.B.	50	50	50	50
Roll Length	meters		75	50	50	50
Roll Width	meters		5.95	5.95	5.95	5.95
Roll Area	Sq.m		446	297.5	297.5	297.5

1. Of 10 reading ; 8 out of 10 must be ≥ 0.18mm, and the lowest individual reading must be ≥ 0.13mm.

2. Machine direction (MD) and cross machine direction (XMD) average values should be on the basis of 5 test specimens each direction.

-Elongation at break is calculated using a gage length of 50mm.

-Elongation at yield is calculated using a gage length of 33mm.

3. NCTL is conducted on representative smooth membrane samples.

+Note1: Dispersion only applies to near spherical agglomerates. 9 of 10 views shall be Category 1 or 2. No more than 1 view from Category 3.

\*Modified



### GEO-LINK Geosynthetics CO, LTD

Room 2209, B Yuanda Building, Zhongshan Dist., Dalian, China

TEL: 86-411-83897853 Fax: 86-411-83895824

Web: www.Geo-textile.com Email: info@Geo-textile.com

