

# G-Meb HD Range Products HDPE Geomembrane

## Technical Data Sheet

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

G-Meb HD is produced from high density polyethylene (HDPE), it has a good quality premium, flexible geomembrane.



( E.M.B.: Every material batch )

Property	Test Method	Frequency	Minimum Value					
Product Code			HD50	HD75	HD100	HD150	HD200	HD250
Thickness, (minimum average) mm	ASTM D 5199	Every roll	0.50	0.75	1.00	1.50	2.00	2.50
Lowest individual reading (-10%)			0.45	0.69	0.91	1.40	1.80	2.30
Density, g/cc	ASTM D 1505	90,000Kgs	0.96	0.96	0.96	0.96	0.96	0.96
Tensile Properties (each direction)	ASTMD6693, Type IV	9,000Kgs						
Strength at Break, N/mm	Dumbell, 2 ipm		13	20	27	40	53	67
Strength at Yield, N/mm			7	11	15	22	29	37
Elongation at Break, %	G.L. 2.0 in (50mm)		700	700	700	700	700	700
Elongation at Yield, %	G.L. 1.3 in (33mm)		14	14	14	14	14	14
Tear Resistance, N	ASTM D 1004	20,000Kgs	62	93	125	187	249	311
Puncture Resistance, N	ASTM D 4833	20,000Kgs	160	240	320	480	640	800
Carbon Black Content, %	ASTM D 1603*/4218	9,000Kgs	2	2	2	2	2	2
Carbon Black Dispersion	ASTM D 5596	20,000Kgs	+Note1	+Note1	+Note1	+Note1	+Note1	+Note1
Tensile Load Stress Cracking, (h)	ASTMD5397, Appendix	90,000Kgs	300	300	300	300	300	300
Standard OIT, min			100	100	100	100	100	100
High Pressure OIT, min	ASTMD3895, 200°C, 1 atm	90,000Kgs	400	400	400	400	400	400
Oven Aging at 85°C	ASTM D 5721							
Standard OIT, retained after 90 days(min), %	ASTM D 3895	E.M.B	55	55	55	55	55	55
UV Resistance								
High Pressure OIT, retained after 1600 hours(min.avg), %	ASTM D 5885	E.M.B.	50	50	50	50	50	50
Roll Length		meters	205	135	210	140	100	80
Roll Width		meters	7	7	7	7	7	7
Approx Load Q'ty per 40' HQ		Sq.m	51660	34020	26460	17640	12600	10080

+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.

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