

# G-Meb CM Range Products CM Geomembrane

## Technical Data Sheet

GEO-LINK CM Geomembrane 18<sup>th</sup> Dec. 2009

G-Meb CM is geomembrane composites composed of geotextile and geomembrane by heat bonding these layers together or extrusion laminating method. It functions as anti-seepage, reinforcement, protection, separation and horizontal drain when used in project. Among these, anti-seepage and separation are the main functions. Meanwhile, reinforcement and protection also take effect together. Anti-seepage functions are usually achieved in projects such as earth rock fill dam, rock fill dam, masonry dam, concrete dam, sewage dam, channel, reservoir, subway basement, tunnel, road, railway and groundwork, etc. This material shortens the time limit for projects and reduces the engineering cost in geotechnical engineering.



## Physical Properties

	Specification								Note
	CM20	CM30	CM40	CM50	CM60	CM70	CM80	CM90	
Density, g/cc [ASTM D 1505]	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	
Mass per Unit g/m <sup>2</sup>	188	282	376	470	564	658	752	846	
Strength at Break, N/mm (Dumbell, 2 ipm)	5.4	8	11	13	16.2	19	22	24	
Strength at Yield, N/mm	2.8	4.2	5.6	7	8.4	9.8	11.2	12.6	
Elongation at Break, %	700	700	700	700	700	700	700	700	
Elongation at Yield, %	14	14	14	14	14	14	14	14	
Tear Resistance, N [ASTM D 1004]	25	37	50	62	74	87	99	117	
Puncture Resistance, N[ASTM D 4833]	64	96	128	160	192	224	256	288	
Carbon Black Content, % [ ASTM D 1603*/4218]	2	2	2	2	2	2	2	2	
Carbon Black Dispersion [ASTM D 5596]	+Note1	+Note1	+Note1	+Note1	+Note1	+Note1	+Note1	+Note1	
Tensile Load Stress Cracking, (h) [ASTMD5397,Appendix]	300	300	300	300	300	300	300	300	
OIT, min [ ASTM D 3895], 200°C, 1 atm	100	100	100	100	100	100	100	100	

### Static Hydraulic Resistance Pressure Specified Values

Film thickness, mm	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	
Geotextile(200g/m <sup>2</sup> )/Film	0.4	0.5	0.6	0.8	1.0	1.2	1.4	1.6	Mpa
Geotextile(100g/m <sup>2</sup> )/film/Geotextile (100g/m <sup>2</sup> )	0.5	0.6	0.8	1.0	1.2	1.4	1.6	1.8	Mpa

If the color is black, it will have two standard values (Carbon Black Content and Carbon Black Dispersion).

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