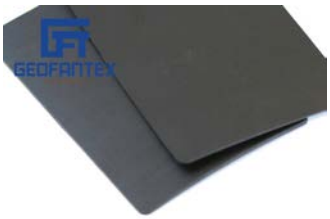
GeofanMeb HD Geomembrane

Technical Data Sheet

GeofanMeb HD May. 2019



Geomembranes are thin two-dimensional sheets with a very low permeability. The polymers come from a chemical plant in the shape of granules. During further processing the granules are melted and after extrusion, eventually followed by spinning, the semi-manufactured products get the shape of sheets. The additives can be used during melting before extrusion. These additives have the main purposes of improving the less favorable properties of the basic materials, especially the sensitivity for alterations.

HDPE gives ultimate durability for such high stress applications as

- **landfill lining**
- **tunnel construction**
- **liquid containment (artificial lakes / reservoirs / pond linings)**

Property	Standard	Minimum Value										Frequency
Product Code		HD 20	HD 30	HD 50	HD 75	HD 100	HD 125	HD 150	HD 200	HD 250	HD 300	
Thickness, (minimum average) mm	ASTM D 5199	0.20	0.30	0.50	0.75	1.00	1.25	1.50	2.00	2.50	3.00	Every roll
Density, g/cc	ASTM D 1505	0.94										90，000Kgs
Tensile Properties (each direction)	ASTMD6693, Type IV											
Strength at Break, KN/m	Dumbell, 2 ipm	5	8	13	20	27	33	40	53	67	80	90，000Kgs
Strength at Yield, KN/m		3	5	7	11	15	18	22	29	37	44	
Elongation at Break, %	G.L. 2.0 in (50mm)	700	700	700	700	700	700	700	700	700	700	
Elongation at Yield, %	G.L. 1.3 in (33mm)	12	12	12	12	12	12	12	12	12	12	
Tear Resistance, N	ASTM D 1004	25	38	62	93	125	156	187	249	311	374	20,000Kgs
Puncture Resistance, N	ASTM D 4833	64	96	160	240	320	400	480	640	800	960	20,000Kgs
Carbon Black Content, %	ASTM D 1603*/4218	2										9,000Kgs
Carbon Black Dispersion	ASTM D 5596	For 10 different views: 9 in Categories 1 or 2 and 1 in Category 3										20,000Kgs
Notched Constant Tensile Load , hr	ASTMD5397, Appendx	500										90,000Kgs
OIT ,min	ASTMD3895,	100										90,000Kgs
Oven Aging at 85℃	ASTM D 5721											
Standard OIT,retained after90 days,%	ASTM D 3895	55										E.M.B
UV Resistance High Pressure OIT, retained after 1600 hours(min.avg), %	ASTM D 5885	50										E.M.B.
Melt Index,condition 190°C/2.16kg	ASTM D 1238	0.20g/10min										
Roll Length (m)		1050	700	420	280	210	168	140	105	84	70	
Roll Width (m)		1-7								1-3		
Approx Load Q'ty per 40' HQ (m^2)		139650	93100	55860	37240	27930	22344	18620	13965	11172	9310	

（E.M.B.: Every material batch ）+Note1:Dispersion only applies to near spherical agglomerates.9 of 10 views shall be Category 1 or 2.No more than 1 view from Category3.

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