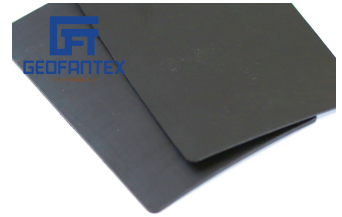


GeofanMeb HDs Geomembrane

Technical Data Sheet

GeofanMeb HDs 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		HDs 20	HDs 30	HDs 50	HDs 75	HDs 100	HDs 125	HDs 150	HDs 200	HDs 250	HDs 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	0.96										90, 000Kgs	
Tensile Properties (each direction)	ASTMD6693, Type IV												
Strength at Break, N/mm	Dumbbell, 2 ipm	5	8	13	20	27	33	40	53	67	80	90, 000Kgs	
Strength at Yield, N/mm		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	+Note 1										20,000Kgs	
Notched Constant	ASTMD5397,											90,000Kgs	
Tensile Load, hr	Appendx											300	
OIT, min	ASTMD3895, 200°C, 1 atm											100	
Oven Aging at 85°C	ASTM D 5721												
Standard OIT, retained after 90 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.
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)		124950	83300	49980	33320	24990	19992	16660	12495	9996	8330		

(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.

Above values are on an average basis, the data was obtained from in-house test laboratory, National test institutes and international test institutes. Geofantex Geosynthetics keeps the right of data changes and the final explanation right. Liability Exclusion: This publication should not be construed as engineering advice. While information contained here is accurate to the best of our knowledge, Geofantex Geosynthetics does not warrant its accuracy or completeness. The only warranty made by Geofantex Geosynthetics for its products is set forth in our Product Test Report accompanies our shipment of the products, or such other written warranty as may be agreed by Geofantex Geosynthetics and customer. Geofantex Geosynthetics specifically disclaims all other warranties, express or implied, including without limitation, warranties of merchantability or fitness for a particular purpose, or rising from provision of samples, a course of dealing or usage of trade.



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