

GeofanMeb HD Range Geomembrane

Technical Data Sheet

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Our HD range of geomembranes are manufactured from the highest quality high density polyethylene resin and are tested according to the latest ASTM standards. HDPE gives ultimate durability for such high stress applications as

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



Our roll width of 7m, lowers the installation cost by limiting unnecessary material overlapping wastagreduced welding and increased speed of application.

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
Notched Constant Tensile Load ,hr	ASTMD5397, Appendx	90,000Kgs	300	300	300	300	300	300
OIT ,min	ASTMD 3895, 200°C , 1 atm	90,000Kgs	100	100	100	100	100	100
Oven Aging at 85 °C	ASTM D 5721							
Standard OIT,retained after90 days,%	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	6	6	6	6	6	6
Approx Load Q'ty per 40' HC		Sqmts	51660	34020	26460	17640	12600	10080

(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. GFT 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, GFT does not warrant its accuracy or completeness. The only warranty made by GFT 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 GFT and customer. GFT specifically disclaims all other warranties, express or implied, including without agreed by GFT and customer. GFT 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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