

High Density Polyethylene (HDPE) Double-Side Textured Geomembrane

Properties	Unit	Test Method	Test Frequency	Min Average Values						
Thickness (min. ave.)	mm	D5994	per roll	0.75	1.00	1.25	1.50	2.00	2.50	3.00
Density	g/cm ³	D 792 D 1505	90,000 kg	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Tensile Properties										
- yield strength	N/mm			11	15	18	22	29	37	44
- break strength	%	D 6693	9,000 kg	12	12	12	12	12	12	12
- yield elongation	N/mm			8	10	13	16	21	26	32
- break elongation	%			100	100	100	100	100	100	100
Tear Resistance (min. ave.)	N	D 1004	20,000 kg	93	125	160	190	250	315	375
Puncture Resistance	N	D 4833	20,000 kg	200	270	335	400	535	670	800
Carbon Black Content	%	D 4218	9,000 kg	2-3	2-3	2-3	2-3	2-3	2-3	2-3
Carbon Black Dispersion	Category	D 5596	20,000 kg	in 10 different views: 9 in Categories 1 or 2 and 1 in Category 3						
Oxidative Induction Time	minutes									
- Standard OIT		D 3895	90,000 kg	100	100	100	100	100	100	100
- High Pressure OIT		D 5885		400	400	400	400	400	400	400
Oven Aging at 85° C										
- Standard OIT	%	D 5721 D 3895	per each formulation	55	55	55	55	55	55	55
- High Pressure OIT		D 5885		80	80	80	80	80	80	80
UV Resistance	%									
- High Pressure OIT		D 7238 D 5885	per each formulation	50	50	50	50	50	50	50

Notes:

- UV Resistance is based on percent retained value regardless of the original High Pressure – OIT value.
- Roll widths and lengths have a tolerance of ±1%

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