

Technical Data Sheet
Linear low density polyethylene (LLDPE) Smooth Geomembrane

Properties	Unit	Test Method	Min Average Values							
Thickness (min. ave.)	mm	D5199	0.50	0.75	1.00	1.25	1.50	2.00	2.50	3.00
Density	g/cm ³	D 792	≤ 0.94	≤ 0.94	≤ 0.94	≤ 0.94	≤ 0.94	≤ 0.94	≤ 0.94	≤ 0.94
Tensile Properties										
- yield strength	N/mm	D 6693	9	14	19	23	28	37	47	56
- break elongation	%		560	560	560	560	560	560	560	560
Tear Resistance (min. ave.)	N	D 1004	45	63	90	108	135	180	225	270
Puncture Resistance	N	D 4833	84	135	175	220	260	350	435	525
Carbon Black Content	%	D 4218	2-3	2-3	2-3	2-3	2-3	2-3	2-3	2-3
Carbon Black Dispersion	Category	D 5596	in 10 different views: 9 in Categories 1 or 2 and 1 in Category 3							
Oxidative Induction Time										
- Standard OIT	minutes	D 3895	100	100	100	100	100	100	100	100
- High Pressure OIT			400	400	400	400	400	400	400	400
Oven Aging at 85° C										
- Standard OIT	%	D 8117 D 5885	35	35	35	35	35	35	35	35
UV Resistance										
- HP-OIT retained after 1,600 hours	%	D 7238 D 5885	35	35	35	35	35	35	35	35

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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