

## 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 <sup>3</sup>	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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