



LLDPE Geomembrane Smooth

Item	Properties	Unit	Test Method	Thickness					
				0.5	0.75	1.0	1.25	1.5	2.0
1	Thickness	mm	D5199	-10%	-10%	-10%	-10%	-10%	-10%
2	Density	g/cm ³	D1505/D79	0.93	0.93	0.93	0.93	0.93	0.93
			2	9	9	9	9	9	9
3	Tensile properties		D6693						
	Break strength	N/m	Type IV						
		m							
Break elongation	%		13	20	27	33	40	53	
4	2% Modulus	N/m	D5323	800	800	800	800	800	800
		m		210	315	420	520	630	840
5	Tear Resistance(min.ave.)		D1004						
	N								
6	Puncture resistance	N	D4833	50	70	100	120	150	200
7	Axi-symmetric Break Resistance		D5617						
	%								
8	Strain								
	Carbon black								



	Carbon black content(range)	%	D4218	2.0-3.0
	Carbon black dispersion		D5596	Carbon black dispersion(only near spherical agglomerates) for 10 different views:9 in categories 1 or 2 and 1 in category 3.
9	Oxidation Induction Time(OIT)			
	Standard OIT	min	D3895	100
	High pressure OIT	min	D5885	400
10	Oven aging at 85°C		D5721	
	Standard OIT(min.ave.)-% retained after 90 days	%	D3895	35
	High pressure OIT(min.ave.)-% retained after 90 days	%	D5885	60
11	UV resistance Standard OIT (min.ave.)-%	%	D3895	35



High pressure OIT (min.ave.)-% retained after 1600 hrs	%	D5885	35
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