

Textured HDPE Geomembrane Specifications

Test Properties	Unit	Standard	Test frequency	M10	M15	M20	M25
Thickness	mm	D5994	per roll	1.00	1.50	2.00	2.50
Asperity Height	mm	D7446	Every 2 nd roll (2)	0.25			
Density	g/cc	D1505/D792	90,000kg	0.94			
Tensile Properties							
Yield Strength	KN/m	D6693	9,000 kg	15	22	29	37
Break Strength	KN/m	Type IV		10	16	21	26
Yield	%			12	12	12	12
Break	%			100	100	100	100
Tear Resistance	N	D1004	20,000kg	125	187	249	311
Puncture Resistance	N	D4883	20,000kg	267	400	534	667
Stress Crack Resistance	hr	D5397(App)	per GRI GM-10	300 hr			
Carbon black content	%	D4218	9,000kg	2.0-3.0%			
Carbon black dispersion		D5596	20,000kg	For 10 different views: 9 in Categories 1 or 2 and 1 in Category 3			

Oxidative Induction Time							
Standard OIT	min	D3895	90,000kg	100 min			
High pressure OIT		D5885	90,000kg	400 min			
Oven Aging at 85°C retained after 90 days	%	D5721	per each formulation	55%			
Standard OIT		D3895		80%			
High pressure OIT		D5885		80%			
UV Resistance							
High Pressure OIT – % retained after 1600 hrs	%	D5885	per each formulation	50%			
Roll Width	m			7	7	7	7
Roll Length	m			210	140	105	70
Size stability	%			2%			