

EGS Geosolutions

HDPE Textured Geomembrane Liner

EGS geomembrane is manufactured from high density polyethylene, from the process of triple extrusion film blowing, designed for waterproof and anti-seepage application. EGS geomembrane features with high tensile strength, UV resistance, high puncture resistance, widely used in aquaculture fish farm pond, water reservoir waterproofing and dam, landfill, dam liner, conform to ASTM GRI GM13.

Test Properties	Unit	Standard	Test frequency	BM10	BM15	BM20	BM25
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 Type IV	9,000 kg	15	22	29	37
Break Strength	KN/m			10	16	21	26
Yield Elongation	%			12	12	12	12
Break Elongation	%			100	100	100	100
Tear Resistance	N	D1004	20,000kg	125	187	249	311
Puncture Resistance	N	D4883	20,000kg	267	400	534	667

Test Properties	Unit	Standard	Test frequency	BM10	BM15	BM20	BM25
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%			