

BOATUP

TECHNICAL DATA SHEET

HDPE Smooth Geomembrane is produced according to the GRI GM13 standard. It's made of high quality polyethylene resin with proportional carbon black antioxidant, anti-aging and UV- resistance materials which exhibit impermeable and ultraviolet resistance properties. Compared with traditional concrete and compacted clay, smooth geomembranes have proven to be more cost effective, safe and fast deployment. They are widely used for solid waste landfills, waste containment, aquaculture and water treatment system, etc.

Test		Unit	Standard	Test Frequency									
Mechanical Properties	Thickness	mm	ASTMD5199	0.3	0.5	0.75	1.00	1.25	1.50	2.00	2.50	3.00	Per roll
	Density	g/cc	ASTMD1505/D792										90,000 kg
	Tensile Properties	kN/m	ASTMD 6693	4	7	11	15	18	22	29	37	44	9,000 kg
	· yield strength	kN/m	Type IV	6	10	20	27	33	40	53	67	80	
	· break strength	%		11	11	12	12	12	12	12	12	12	
	· yield elongation	%		600	600	700	700	700	700	700	700	700	
	· break elongation												
	Tear Resistance	N	ASTM D 1004	34	56	93	125	156	187	249	311	374	20,000 kg
	Puncture Resistance	N	ASTM D 4833	72	120	240	320	400	480	640	800	960	20,000 kg
Stress Crack Resistance	hr.	ASTM D 5397	300hr.									per GRI GM-10	
Carbon Black Content	%	ASTM D 4218	2.0~3.0%									9,000 kg	
Reference Properties	Oxidative Induction Time (a) Standard OIT (b) High Pressure OIT	min	ASTM D 3895 ASTM D 5885	100min 400min									90,000 kg
	Oven Aging at 85°C retained after 90 days (a) Standard OIT - % (b) High Pressure OIT - %	%	ASTM D 5721 ASTM D 3895 ASTM D 5885	50% 80%									per each formulation
	UV Resistance High Pressure OIT - % retained	%	ASTM D 5885	50%									per each formulation
	Melt Index,condition 190°C/2.16kg		ASTM D1238										
Roll size	Dimensional Stability	%											
	width	m		7	7	7	7	7	7	7	7	7	roll size can be customized
	Length	m		700	420	280	210	168	140	105	84	70	

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