

# BOATUP

## TECHNICAL DATA SHEET

HDPE Textured Geomembrane is produced according to the GRI GM13 standard and production line technology use the spraying strip based on smooth surface which perperties are 2-4 time higher than standard. HDPE textured sheet is more suitable for steep slope and vertical anti-seepage to improve engineering stability. The construction speed is fast and the rough surface added the friction coefferciency. It is the ideal geotechnical product for landfill mining,oil and gas applications. All thickness from 0.2mm-3mm can be textured surface.

Properties		Unit	Test Method	Standard										Test Frequency	
Mechanical Properties	Thickness	mm	ASTMD5199	0.2	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	0.94										90,000 kg	
	Tensile Properties	kN/m	ASTMD 6693												9,000 kg
	· yield strength	kN/m	Type IV	3	5	7	11	15	18	22	29	37	44		
	· break strength	%		5	8	13	20	27	33	40	53	67	80		
	· yield elongation	%		12	12	12	12	12	12	12	12	12	12		
	· break elongation			700	700	700	700	700	700	700	700	700	700		
	Tear Resistance	N	ASTM D 1004	25	38	62	93	125	156	187	249	311	374	20,000 kg	
	Puncture Resistance	N	ASTM D 4833	64	96	160	240	320	400	480	640	800	960	20,000 kg	
	Stress Crack Resistance	hr.	ASTM D 5397	500 hr.										per GRI GM-10	
Carbon Black Content	%	ASTM D 4218	2.0-3.0%										9,000 kg		
Carbon Black Dispersion		ASTM D 5596	For 10 different views: 9 in Categories 1 or 2 and 1 in Category 3										20,000 kg		
Reference Properties	Oxidative Induction Time (a) Standard OIT (b) High Pressure OIT	min	ASTM D 3895 ASTM D 5885	100 min. 500 min.										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	55% 80%										per each formulation	
	UV Resistance High Pressure OIT retained (1600hrs)	%	ASTM D 5885	50%										per each formulation	
Melt Index,condition 190°C/2.16kg		ASTM D1238	0.20g/10min												
Roll size	Dimensional Stability	%		±2											
	width	m		7	7	7	7	7	7	7	7	7	7	roll size can be customized	
	Length	m		1050	700	420	280	210	168	140	105	84	70		
	Roll Area	m <sup>2</sup>		7350	4900	2940	1960	1470	1176	980	735	588	490		

NINGBO BOATUP GEOSYNTHETICS CO.,LTD

Web: [www.geoboatup.com](http://www.geoboatup.com)

Email: [info@geoboatup.com](mailto:info@geoboatup.com)

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