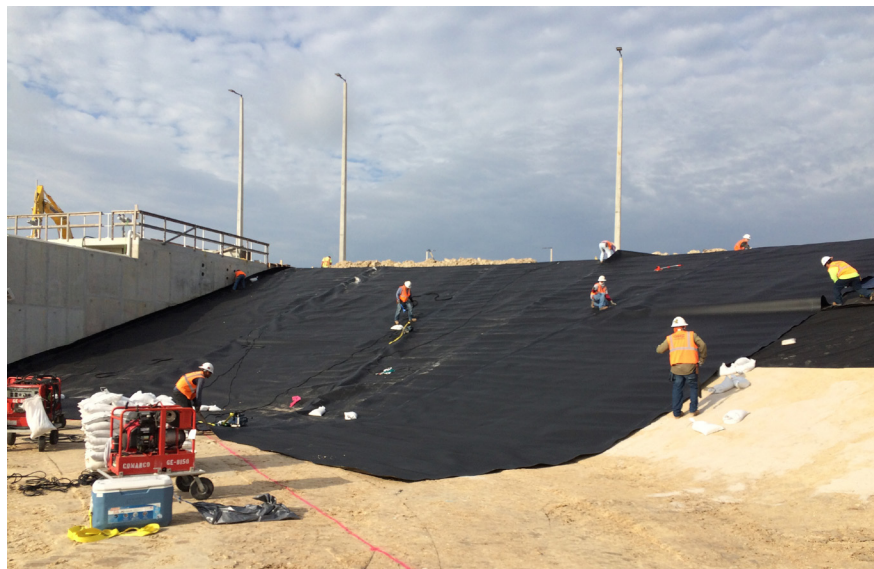


Geomembrane



Applications for HDPE

- Ponds
- Lagoons
- Anaerobic digestion ponds
- Gas barrier
- Hydrocarbon barrier
- Swales
- Attenuation tanks



HDPE

Impermeable Geomembrane

HDPE Geomembranes are the most commonly specified liners in the construction industry. Tried and tested the HDPE membranes are resistant to most chemicals, are extremely robust and have a high stress fracture resistance. HDPE liners are available in 0.75mm, 1mm, 1.5mm, 2mm, 2.5mm and 3mm sheet thickness. HDPE liners are suitable for Anaerobic Digestion applications, barriers against Hydrocarbons and protecting against the ingress of harmful soil based gases such as methane, carbon dioxide and radon.



Protection - Stress reduction layer to prevent or reduce damage



Reinforcement - Resists stresses or reduces deformations



Drainage - Collects and transports fluids within its thickness



1. Wrekin Products Ltd is continually seeking to improve our products and therefore reserves the right to alter product specifications without prior notice. It is the responsibility of all users to satisfy themselves the above data is current.
2. Installation details are available on request.
3. Published September 2016 - Version 1.AC



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PROPERTIES		TEST METHOD	UNIT	PEHD G/G					
				0.75	1.0	1.5	2.0	2.5	3.0
Surface				Smooth both sides					
Thickness (min. ave)		ASTM D 5199	mm	0.75	1.0	1.5	2.0	2.5	3.0
		Lowest individual of 10 values			-10%	-10%	-10%	-10%	-10%
Density (max)		ASTM D 1505	g/cm ²	0.94	0.94	0.94	0.94	0.94	0.94
Tensile properties (min. ave.)	Yield strength	ASTM 6693 type IV	kN/m	12	17	25	33	42	48
	Break strength		kN/m	24	30	45	58	75	85
	Yield elongation		%	12	12	12	12	12	12
	Break elongation		%	750	750	750	750	750	750
Tear Resistance (min. ave)		ASTM D 1004	N	100	130	190	280	340	380
Puncture Resistance (min. ave)		ASTM D 4833	N	300	350	550	700	850	1000
Stress Crack Resistance		ASTM D 5397	hour	300	300	300	300	300	300
Carbon Black Content		ASTM D 4218 ASTM D 6370	%	2-3	2-3	2-3	2-3	2-3	2-3
Carbon Black Dispersion		ASTM D 5596	Category	min. 9 in Categories 1 and 2 and max. 1 in Category 3					
Oxidative Induction Time (OIT) (min. ave.) Standard OIT		ASTM D 3895	min.	100	100	100	100	100	100
Oven Aging at 85°C Standard OIT (min. ave.) % retained after 90 days		ASTM D 5721 ASTM D 3895	%	55	55	55	55	55	55
STANDARD ROLL DIMENSIONS									
Roll length			m	100	100	150	120	100	85
Roll width			m	5.1 or 8.0					
Roll area			m ²	510	1020 or 1600	765 or 1200	612 or 960	510 or 800	434 or 680