

# Geomembrane







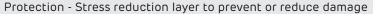


# **LLDPE**

# Impermeable Geomembrane

More flexible than its HDPE alternative, LLDPE material provides greater elongation and maluablility making the LLDPE geomembrane easier to work with particularly when forming around corners or obscure angles. High in chemical resistance, LLDPE is ideal for attenuation tanks, SUDS, lagoons, lakes and ponds.







Reinforcement - Resists stresses or reduces deformations



Drainage - Collects and transports fluids within its thickness

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PROPERTIES			TEST METHOD	UNIT	0.75	1.0
Surface					Smooth both sides	
Thickness (min. ave)			ASTM D 5199	mm	0.75	1.0
			Lowest individual of 10 values		-10%	-10%
Density (max)			ASTM D 1505	g/cm²	0.939	0.939
Tensile properties (min. ave.)	Break strength		ASTM 6693 type IV	kN/m	20	30
				%	800	800
2% Modulus (max.)			ASTM D 5323	kN/m	370	420
Tear Resistance (min. ave)			ASTM D 1004	N	70	100
Puncture Resistance (min. ave)			ASTM D 4833	N	190	350
Axi-Symmetric Break Resistance Strain (min.)			ASTM D 5617	%	30	30
Carbon Black Content			ASTM D 4218 ASTM D 6370	%	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 Indu	oction Time (OIT) n.ave.)	Standard OIT	ASTM D 3895	min.	100	100
		High Pressure OIT	ASTM D 3895		400	400
Oven Aging at 85°C Standard OIT (min. ave.) % retained after 90 days		ASTM D 5721 ASTM D 3895	%	35	35	
UV Resistance High Pressure OIT (min. ave.) % retained after 1600 hours			ASTM D 5885	%	35	35
STANDARD ROLL DIMENSIONS						
	Roll I	ength		m	100	100
Roll width				m	5.1	5.1

- 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.
- Installation details are available on request.
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Roll area

BS EN 13361: Characteristics required for use in the construction of reservoirs and dams.

BS EN 13362: Characteristics required for use in the construction of canals. BS EN 13491: Characteristics required for use in the construction of tunnels and underground structures.

BS EN 13492: Characteristics required for use in the construction of liquid waste disposal sites, transfer stations, or secondary containment.

BS EN 13493: Characteristics required for use in the construction of solid waste storage and disposal sites.

BS EN 15382: Characteristics required for use in the construction of transportation infrastructure.

### **HANDLING**

Roll weights can be in excess of 200kg and hence appropriate care and equipment is required for unloading and handling.

#### **STORAGE**

Rolls of LLDPE should be stored on stable/level ground and stacked not more than five rolls high, with no other material stacked on top. The rolls can be stored outdoors when packaged, but should be protected from exposure to UV.

#### **INSTALLATION**

LLDPE should be installed in accordance with the product installation guidelines.

### JOINTING AND SEALING

LLDPE should be jointed and sealed in accordance with the product installation guidelines.

## ADDITIONAL INFORMATION

For additional information or assistance, please contact Wrekin directly.

