

# HDPE 0.6 MM

HDPE 0.6 mm - is a mono layer, high-density polyethylene membrane specifically designed and manufactured to perform as a robust waterproofing barrier protection system, which is suitable for use in various demanding geomembrane applications such as SUDS, root barrier, waterproofing and radon protection and permeable paving.

<b>Thickness</b>	0.6 mm
<b>Width</b>	2.5 m or 5.1 m
<b>Length</b>	50 m or 100 m
<b>Density</b>	0.939 g/cm <sup>3</sup>

## **TITANTECH®**

For developers of brownfield and contaminated sites the TITANTECH® family of products represent a major step forward in safeguarding projects against gaseous and chemical contamination.

HDPE 0.6 mm is a fully weldable, category 2 attenuation grade liner fully conformant to C753 and BS7533-13 and is CE marked for use in the following application areas: EN13967 (A/T).

HDPE 0.6 mm provides resistance to root penetration from invasive species, including (but not limited to): Japanese Knotweed, Bamboo, Mustard Seed, meadow Grass, Ivy, Hybrid poplars, Willow, Elm, Maple, Mare's Tail, ground creeping plants, edible plants and aquatic plants.



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Feature	Characteristics	Test Method	HDPE 0.6 MM
<b>Physical Properties</b>	Thickness	EN 1849-2	0.6 mm
	Width	EN 1849-2	2.5 or 5.1 m
	Length	EN 1849-2	50 or 100 m
	Density	Length	0.939 g/cm <sup>3</sup>
	Resistance to Roots	Length	Impenetrable
<b>Hydraulic Press</b>	Permeability to liquids	EN 14510	1.0 x 10 <sup>-6</sup> m <sup>3</sup> /(m <sup>2</sup> .d)
	Water Tightness (60 kPa)	EN 1928	Pass
<b>Mechanical Properties</b>	Resistance to Static Load	EN 12730-B	> 20 kg
	Tensile Strength (MD)	EN 12311-2 (A)	500 N/50mm
	Tensile Strength (CMD)	EN 12311-2 (A)	500 N/50mm
	Tear Strength (MD)	EN 12310-1	450 N
	Tear Strength (CMD)	EN 12310-1	500 N
	Resistance to Impact	EN 12691 (A)	> 2000 mm
	Shear Resistance of Joint	EN 12317-2	Welded: 400 N/50mm GP® TITAN TAPE: 400 N/50mm
<b>Durability and Chemical Resistance</b>	Resistance to Elevated Temperature	EN 1296	Conforming
	Resistance to Liquid Chemicals	EN 1847	Conforming
<b>Gas Permeability</b>	Radon Permeability	K124/02/95	2.0 x 10 <sup>-12</sup> m <sup>2</sup> /s
<b>Compliance and Certification</b>	CE Mark - EN13967:2012 (A/T)		
	BS7533-13 and 'Code for Sustainable Homes 2006' Conformant		
	Conforms to CIRIA C697 and C753 as an Attenuation Membrane		

## JUTA UK

Please contact JUTA UK Directly for more information on HDPE 0.6 mm

## Application

HDPE 0.6 mm is a robust weldable geomembrane suitable for attenuation tank encapsulations, porous sub-base installations, containment and cut-off trenches, structural waterproofing. HDPE 0.6 mm is a chemically inert membrane offering designers and specifiers a range of critical properties that meet the needs of today's demanding geomembrane applications including high water table sites. HDPE 0.6 mm can be fully welded where required.

Note - where design and usage require compliance to BS8465:2015, BS8102:2009 and C748 for protection of inhabitants against ground gases and VOC's. It is recommended to use our GP® TITANFLEX® membrane system, which provides additional mitigation against the ingress of harmful gases and VOC's.

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Every potential major development in the UK is examined for the risk of flooding following (1:100) storm events. Sustainable drainage systems (known as SUDS) offer an alternative approach to traditional drainage. SUDS effectively manage drainage at source and aim to detain run off and release it slowly into water course. The "Code for Sustainable Homes 2006" (a code of practice for sustainable building) uses a sustainable rating system that helps designers' and builders' choice of development and also aids home buyers' selection of home. Category 4 "Surface water run off" mentions that added points will be scored if an attenuation system is used. HDPE 0.6 mm, used in conjunction with an underground storm water system, increase the development's sustainable rating.

### Additional System Components

- 300TT - non-woven geotextile protector of use following HDPE 0.6 mm installation to protect the membrane from damage against backfilling. Typically used in attenuation tank encapsulation, 300TT geotextile is a CE marked BS7533-13 and C753 conformant protection grade textile.
- HDPE 0.6 mm Top Hat Unit - preformed pipe sleeve unit for sealing around pipe penetrations.

### Installation

HDPE 0.6 mm should be installed on a blinded or smooth surface, free from sharp protrusions (typically maximum permissible particle size in direct contact with the membrane should be < 10mm). Avoid areas of unsupported membrane. Where required, adequate protection should be applied over the membrane to prevent damage after installation. HDPE 0.6 mm exhibits superior welding properties, making it ideal for on-site welding joints.

### Storage and Handling

Store in a clean and dry environment, with rolls stacked no more than 5 units high. HDPE 0.6 mm is classified as non-hazardous. It is chemically inert and is not affected by acids and alkalis that may be present in the subsoils. The material is not recommended for uses where it will be exposed to long periods of outdoor weathering, such as exposure to Ultraviolet light that will embrittle the product. Care should be take to avoid accidental damage when handling the membrane on site.