



**GP<sup>1</sup>**



GP<sup>1</sup> proprietary gas resistant damp proof membrane (DPM) is a multi-layer, low density polyethylene membrane, reinforced with a polypropylene reinforcing grid with an integral aluminium foil. GP<sup>1</sup> is specifically designed and manufactured to perform as a methane, carbon dioxide, radon, ground gas, air & moisture protection system.

<b>Thickness</b>	0.6 mm
<b>Width</b>	Various m
<b>Length</b>	Various m
<b>Weight</b>	370 g/m <sup>2</sup>

**TITANTECH<sup>®</sup>**

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

**Handling**

Roll weights can be in excess of 20 kg and hence appropriate care and equipment is required for unloading and handling.

**Storage**

Rolls of GP<sup>1</sup> 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**

GP<sup>1</sup> should be installed in accordance with the product installation guidelines, and in accordance with BS 8485:2015.

**Certifications**



Please Scan



Rev 2024



Feature	Characteristics	Test Method	GP <sup>®</sup> 1
<b>Physical Properties</b>	Thickness	EN 1849-2	0.6 mm
	Thickness - between Scrim	BS EN ISO 9863-1:2016	0.4 mm
	Width	EN 1849-2	Various m
	Length	EN 1849-2	Various m
	Weight	EN 1849-2	370 g/m <sup>2</sup>
<b>Hydraulic Press</b>	Water Column	EN 20811	> 300
	Resistance to Water Penetration	EN 13967, EN 1928	Pass
	Water Tightness	EN 11296, EN 1367, EN 1928	Pass
<b>Mechanical Properties</b>	Resistance to Static Load	EN 12730-B	20 kg
	Tensile Strength (MD)	EN 12311-1	600 N/50mm
	Tensile Strength (CMD)	EN 12311-1	480 N/50mm
	Tensile Elongation (MD)	EN 12310-1	20%
	Tensile Elongation (CMD)	EN 12310-1	20%
	Puncture Resistance	EN 12236	1.25 kN
	Resistance to Tearing (Nail Shank) MD	EN 12310-1	330 N
	Resistance to Tearing (Nail Shank) CMD	EN 12310-1	400 N
<b>Durability and Chemical Resistance</b>	Transmission Rate of Volatile Liquids - Diesel	ISO 6179:2010 (B)	0.246 g/m <sup>2</sup> /h
	Transmission Rate of Volatile Liquids - Xylene	ISO 6179:2010 (B)	0.571 g/m <sup>2</sup> /h
	Transmission Rate of Volatile Liquids - Toluene	ISO 6179:2010 (B)	0.583 g/m <sup>2</sup> /h
	Transmission Rate of Volatile Liquids - Petrol	ISO 6179:2010 (B)	0.135 g/m <sup>2</sup> /h
<b>Gas Permeability</b>	Methane Permeability	BS EN ISO 15105-1	< 0.09 ml/m <sup>2</sup> /day/atm
	Carbon Dioxide Permeability	BS EN ISO 15105-1	< 0.09 ml/m <sup>2</sup> /day/atm
	Radon Permeability	K124/02/95	8.0 x 10 <sup>-15</sup> m <sup>2</sup> /s
	Hydrogen Sulphide Permeability	BS EN ISO 15105-1	< 0.1 ml/m <sup>2</sup> /day/atm
<b>Compliance and Certification</b>	CE Mark - EN13967:2012 (A1 2017)		
	NHBC Standards Compliant		
	Conforms to BS 8485:2015 + A1 2019		
	BBA Certified - Certificate No. 20/5728		

**JUTA UK**

Please contact JUTA UK Directly for more information on GP<sup>®</sup>1

**Jointing and Sealing**

It is recommended GP<sup>®</sup>1 be heat welded where possible, with welding carried out by competent personnel with suitable qualifications in accordance with best practice, and guidance contained within BS 8485:2015.

**Accessory Products**

- GP<sup>®</sup>1 Starter Band
- GP<sup>®</sup> Tape
- GP<sup>®</sup> Self Adhesive Membrane
- GP<sup>®</sup> Primer
- GP<sup>®</sup> Top Hats and Preformed Corners
- GP<sup>®</sup> Protection Fleece
- GP<sup>®</sup> Void Vent (24/40mm)