



GP[®]5

GP[®]5 gas barrier is a multi-layer composite of virgin polyethylene (PE) giving exceptional resistance to the passage of ground gas and organic vapours. It also acts as a high performance DPM.

| | |
|------------------|----------------------|
| Thickness | 0.4 mm |
| Width | Various m |
| Length | Various m |
| Weight | 400 g/m ² |

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.

GP[®]5 is suitable for the following applications:

- Carbon dioxide and methane affected sites in accordance with BS 8485:2015 + A1:2019 & NHBC
- Radon affected sites in accordance with BRE211:2015
- Damp protection in accordance with Building Regulations Part C
- Low level VOC contaminated sites (site specific assessment required)

Handling

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

Installation

GP[®]5 should be installed in accordance with the product installation guidelines, and in accordance with BS 8485:2015.





| Feature | Characteristics | Test Method | GP ⁵ |
|-------------------------------------|---|-------------------|--|
| Physical Properties | Thickness | EN 1849-2 | 0.4 mm |
| | Width | EN 1849-2 | Various m |
| | Length | EN 1849-2 | Various m |
| | Weight | EN 1849-2 | 400 g/m ² |
| Hydraulic Press | Resistance to Water Penetration | EN 1928 (A) | Pass |
| Mechanical Properties | Resistance to Static Load | EN 12730 | > 20 kg |
| | Tensile Strength (MD) | EN 12311-2 (A) | > 300 N/50mm |
| | Tensile Strength (CMD) | EN 12311-2 (A) | > 300 N/50mm |
| | Resistance to Tearing (Nail Shank) MD | EN 12310-1 | > 230 N |
| | Resistance to Tearing (Nail Shank) CMD | EN 12310-1 | > 230 N |
| | Impact Resistance | EN 12691-B | 500 mm |
| | Puncture Resistance | ASTM D 4833 | > 160 N |
| | Puncture Resistance | EN 12236 | 1.60 kN |
| | Reaction to Fire | EN 13501-1 | E |
| Vapour Permeability | Methane Permeability | BS EN ISO 15105-1 | 0.12 ml/m ² /day/atm |
| | Carbon Dioxide Permeability | BS EN ISO 15105-1 | 1.53 ml/m ² /day/atm |
| | Hydrogen Permeability | BS EN ISO 15105-1 | 68.7 ml/m ² /day/atm |
| | Benzene Permeability | BS EN ISO 15105-2 | 0.41 ml/m ² /day |
| | Oxygen Permeability | BS EN ISO 15105-2 | <3 ml/m ² /day |
| | Radon Permeability | K124/02/95 | 1.0 x 10 ⁻¹² m ² /s |
| Fuel Vapour Permeability | Petrol | BS EN ISO 15105-2 | (ave.) 3.4 x 10 ⁻¹³ /mol/(m ² .s.Pa) |
| | Diesel | BS EN ISO 15105-2 | (ave.) 3.4 x 10 ⁻¹³ /mol/(m ² .s.Pa) |
| Durability | Durability Watertightness After Artificial Ageing | EN 1928 | Pass |
| | Durability Watertightness Against Chemicals | EN 1928 | Pass |
| Compliance and Certification | CE Mark - EN 13967:2012 | | |
| | NHBC Standards Compliant | | |
| | BS 8485:2015 + A1 2019 Accordant | | |

JUTA UK

Please contact JUTA UK Directly for more information on GP⁵

Storage

Rolls of GP⁵ 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.



JUTA UK

Please contact JUTA
UK Directly for more
information on GP[®]5

Jointing and Sealing

It is recommended GP[®]5 can 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. GP[®]5 should be overlapped by at least 100mm. If taping joints, only suitable tape must be used, ensuring application with a silicone roller to remove trapped air. JUTA pre-formed details, or self adhesive gas membrane are available for sealing around protuberances.

Accessory Products

- GP[®] DPC
- GP[®] Tape
- GP[®] Self Adhesive Membrane (SAM)
- GP[®] Primer
- GP[®] Top Hats and Preformed Corners
- GP[®] Protection Fleece
- GP[®] Void Vent (24/40mm)

