



Part of the DB Group

PRODUCT DATA SHEET

PUDLO GB Reinforced

DESCRIPTION

PUDLO GB Reinforced is low density reinforced LDPE aluminium foil ground gas membrane.

USES

PUDLO GB Reinforced is suitable for use in areas where carbon dioxide, methane and radon are present in the ground. **PUDLO GB Reinforced** is also satisfactory for use as a damp-proof membrane in accordance with CP 102:1973, Section 2 and BS 8000-4:1989

TECHNICAL DATA

Physical Properties

Characteristics	Test Method	Unit	PUDLO GB Reinforced
Thickness	EN 1849-2	mm	0.6
Width	EN 1849-2	M	2
Length	EN 1849-2	M	50
Weight	EN 1849-2	g/m ²	350

Hydraulic Properties

Characteristics	Test Method	Unit	PUDLO GB Reinforced
Water Column	EN 20811	-	>300
Resistance to water penetration	EN 13967, EN 1928	-	PASS
Water Tightness	EN 1296, EN 1367, EN 1928	-	PASS

Mechanical Properties

Characteristics	Test Method	Unit	PUDLO GB Reinforced
Resistance to Static Load	EN 12730	Kg	20
Tensile Strength (MD)	EN 12311-1	N/50mm	600
Tensile Strength (CMD)	EN 12311-1	N/50mm	480
Tensile Elongation (MD)	EN 12311-1	%	20
Tensile Elongation (CMD)	EN 12311-1	%	20
Puncture Resistance	EN 12236	kN	1.25
Resistance to tearing (nail shank) MD	EN 12310-1	N	330
Resistance to tearing (nail shank) CMD	EN 12310-1	N	400

Durability and Chemical Resistance

Characteristics	Test Method	Unit	PUDLO GB Reinforced
Transmission rate of volatile liquids – Diesel	ISO 6179:2010 (B)	g/m ² /h	0.246



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Transmission rate of volatile liquids – Xylene	ISO 6179:2010 (B)	g/m ² /h	0.571
Transmission rate of volatile liquids – Toluene	ISO 6179:2010 (B)	g/m ² /h	0.583
Transmission rate of volatile liquids – Petrol	ISO 6179:2010 (B)	g/m ² /h	0.135

Gas Permeability

Characteristics	Test Method	Unit	PUDLO GB Reinforced
Methane Permeability	BS EN ISO 15105-1	ml/m ² /day/atm	<0.09
Carbon Dioxide Permeability	BS EN ISO 15105-1	ml/m ² /day/atm	<0.09
Radon Permeability	K124/02/95	m ² /s	8.0 x 10 ⁻¹⁵

Certification

Organisation	Requirements
CE Mark	EN13967:2012
NHBC	Standards Compliant
BS 8485:2015	Compliant
BBA Certified	VOC Barrier

**Note, buildings in area of risk should be constructed in accordance with recommendations of BRE Report BR 211:2015 Radon: Guidance on protective measures for new buildings, and following the guidance set out in BS 8485:2015*

MEMBRANE INSTALLATION

It is recommended that **PUDLO GB Reinforced** is heat welded where possible, with heat welding carried out by competent personnel with correct qualifications in accordance with BS 8485:2015. All membrane overlaps must be a minimum of 100mm. If taping joints use **PUDLO Lap Tape / PUDLO GB Tape / PUDLO GB Lap Tape**. During installation please ensure application is carried out with a silicone roller to remove any trapped air. **PUDLO** pre-formed details or self-adhesive gas membranes are available for sealing around extruding elements. In the event the membrane gets damaged, the area must be repaired using a patch of membrane, and laps welded or sealed with double sided tape and secured with butyl tape. All patches must extend a minimum 150mm from the damaged area. All gas membrane installation should be subject to third party validation in accordance with BS 8485:2015. **PUDLO** must remain independent in this process, and therefore, any instruction for third party validation must be instructed by the contractor.

ANCILLARIES

- **PUDLO GB Lap Tape**
- **PUDLO GB Tape**

PACKAGING

PUDLO GB Reinforced comes in roll sizes of 2 X 50m



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ANCILLARY PRODUCTS

- PUDLO GB Tape
- PUDLO GB Lap Tape

HEALTH & SAFETY

PUDLO GB Reinforced rolls are heavy in excess of 20kg. Please refer to **PUDLO GB Reinforced** MSDS for more information.

FIRE

Refer to MSDS for further information.

STORAGE & SHELF LIFE

PUDLO GB Reinforced should be stacked on a flat surface and protected from direct sunlight and mechanical damage.

For further information on accessories that are used with **PUDLO GB Reinforced** please contact PUDLO Head Office on 01954 780687 or email sales@pudlo.com.