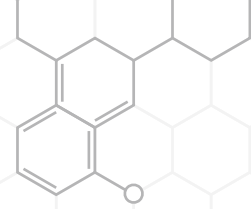




GP® TITANFLEX



GP® TITANFLEX - Gas and hydrocarbon barrier is a multi-layer, polyethylene membrane. GP® TITANFLEX is specifically designed, manufactured, tested and certified to perform as a **methane, carbon dioxide, radon, ground gas, VOC, air & moisture** and **hydrocarbon** protection system.

GP® TITANFLEX complies with the latest codes of practise as published by **BRE, CIRIA (C748)** and **BSI (BS 8485:2015)**. Suitable for use as Ground Gas/Hydrocarbon protection for **NHBC, GREEN, AMBER 1, AMBER 2** and **RED** site characterisations.

CHARACTERISTIC	TEST METHOD	UNIT	GP® TITANFLEX
PHYSICAL PROPERTIES			
THICKNESS	EN 1849-2	mm	0.5
WIDTH	EN 1849-2	M	2
LENGTH	EN 1849-2	M	50
WEIGHT	EN 1849-2	G/M ²	500
HYDRAULIC PROPERTIES			
WATER VAPOUR TRANSMISSION RATE	EN 1931	G/M ² /day	0.93-0.95
WATERTIGHTNESS (60 kPa)	EN 1928	-	PA55
WATERTIGHTNESS (196 kPa - 20m WATER HEAD) (BASEMENT APPLICATION)	EN 1928	-	PA55
MECHANICAL PROPERTIES			
RESISTANCE TO STATIC LOAD	EN 12730 - B	Kg	>20
TENSILE STRENGTH (MD)	EN 12311 - 1	N/50mm	>550
TENSILE STRENGTH (CMD)	EN 12311 - 1	N/50mm	>400
TENSILE ELONGATION (MD/CMD)	EN 12311 - 1	%	>550
TEAR RESISTANCE (MD/CMD)	EN 12310 - 1	N	>300
RESISTANCE TO IMPACT	EN 12691 - B	mm	>650
REACTION TO FIRE	EN 13501-1	CLASS	E
RESISTANCE TO ARTIFICIAL AGEING	EN 1296/EN 1928	-	PA55
RESISTANCE TO CHEMICALS	EN 1847/EN 1928	-	PA55
COMPLIANCE AND CERTIFICATION			
CE MARK - EN13967:2012			
NHBC STANDARDS COMPLIANT			
CIRIA C748 COMPLIANT			
BS 8485:2015 COMPLIANT			



- ⊕ Quick and easy installation.
- ⊕ Can be a fully welded system.
- ⊕ High resistance to ground gases.
- ⊕ Exceptional Chemical Resistance.
- ⊕ Manufactured to meet the most up to date British Standards and guidance.
- ⊕ Long Term Durability (performance guaranteed for the lifetime of the building).

Contact us for more information: Info@juta.co.uk

TECHNICAL DATA

CHARACTERISTIC	TEST METHOD	UNIT	GP® TITANFLEX
VAPOUR PERMEABILITY 100% CONCENTRATION			
TRANSMISSION RATE OF BENZENE	EN ISO 15105 - 2	mg/m ² /day	2250
TRANSMISSION RATE OF TOLUENE	EN ISO 15105 - 2	mg/m ² /day	2370
TRANSMISSION RATE OF ETHYL BENZENE	EN ISO 15105 - 2	mg/m ² /day	400
TRANSMISSION RATE OF XYLENE (M,P,O)	EN ISO 15105 - 2	mg/m ² /day	690
TRANSMISSION RATE OF HEXANE	EN ISO 15105 - 2	mg/m ² /day	0.58
TRANSMISSION RATE OF VINYL CHLORIDE	EN ISO 15105 - 2	mg/m ² /day	0.112
TRANSMISSION RATE OF TRICHLOROETHENE (TCE)	EN ISO 15105 - 2	mg/m ² /day	54.67
TRANSMISSION RATE OF TETRACHLOROETHENE (PCE)	EN ISO 15105 - 2	mg/m ² /day	25.91
TRANSMISSION RATE OF NAPHTHALENE	EN ISO 15105 - 2	mg/m ² /day	0.00057
TRANSMISSION RATE OF CIS-1,2-DICHLOROETHENE	EN ISO 15105 - 2	mg/m ² /day	3.09
GAS PERMEABILITY			
METHANE PERMEABILITY	EN ISO 15105 - 1	ml/m ² /day/atm	0.13
METHANE PERMEABILITY (JOINTED)	EN ISO 15105 - 1	ml/m ² /day/atm	1.00
CARBON DIOXIDE PERMEABILITY	EN ISO 15105 - 1	ml/m ² /day/atm	3.01
TRANSMISSION RATE OF VINYL CHLORIDE GAS	EN ISO 15105 - 1	ml/m ² /day/atm	0.04
RADON PERMEABILITY	K124/02/195	M ² /5	1.0 X 10 ⁻¹²
DURABILITY AND CHEMICAL RESISTANCE			
Chemical Resistance - SULFURIC ACID (10% solution of Sulfuric Acid (H ₂ SO ₄)) 50° for 56 days.	EN 14414 - A	TENSILE STRENGTH RETAINED	100%
		RESULT	PA55
Chemical Resistance - BASIC (Calcium Hydroxide saturated suspension) 50° for 56 days.	EN 14414 - B	TENSILE STRENGTH RETAINED	100%
		RESULT	PA55
Chemical Resistance - SOLVENTS (35% Diesel, 35% Paraffin, 30% Oil HD30 (vol)) 50° for 56 days.	EN 14414 - C	TENSILE STRENGTH RETAINED	>80%
		RESULT	PA55
Chemical Resistance - SYNTHETIC LEACHATE (Mixture of 14 acids, chlorides, sulphates and phosphate) 50° for 56 days.	EN 14414 - D	TENSILE STRENGTH RETAINED	100%
		RESULT	PA55
Resistance to Leaching - HOT WATER (Deionised water) 50° for 56 days.	EN 14415 - A	TENSILE STRENGTH RETAINED	100%
		RESULT	PA55
Resistance to Leaching - AQUEOUS ALKALINE (Saturated Calcium Hydroxide) 50° for 56 days.	EN 14415 - B	TENSILE STRENGTH RETAINED	100%
		RESULT	PA55
Resistance to Leaching - ORGANIC ALCOHOL (30% METHANOL, 30% ISOPROPANOL, 40% GLYCOL) 50° for 56 days.	EN 14415 - C	TENSILE STRENGTH RETAINED	100%
		RESULT	PA55
Chemical Resistance - BENZENE - 100% Saturated concentration	EN 14414 - D (MOD)	TENSILE STRENGTH RETAINED	95% (MD) 102% (CMD)
		RESULT	PA55
Chemical Resistance - TOLUENE - 100% Saturated concentration	EN 14414 - D (MOD)	TENSILE STRENGTH RETAINED	94% (MD) 91% (CMD)
		RESULT	PA55
Chemical Resistance - ETHYL BENZENE - 100% Saturated concentration	EN 14414 - D (MOD)	TENSILE STRENGTH RETAINED	99% (MD) 97% (CMD)
		RESULT	PA55
Chemical Resistance - XYLENES - 100% Saturated concentration	EN 14414 - D (MOD)	TENSILE STRENGTH RETAINED	91% (MD) 106% (CMD)
		RESULT	PA55
Chemical Resistance - TCE - 100% Saturated concentration	EN 14414 - D (MOD)	TENSILE STRENGTH RETAINED	99% (MD) 93% (CMD)
		RESULT	PA55
Chemical Resistance - PCE - 100% Saturated concentration	EN 14414 - D (MOD)	TENSILE STRENGTH RETAINED	93% (MD) 93% (CMD)
		RESULT	PA55
Chemical Resistance - NAPHTHALENE - 100% Saturated concentration	EN 14414 - D (MOD)	TENSILE STRENGTH RETAINED	101% (MD) 93% (CMD)
		RESULT	PA55
Chemical Resistance - HEXANE - 100% Saturated concentration	EN 14414 - D (MOD)	TENSILE STRENGTH RETAINED	99% (MD) 104% (CMD)
		RESULT	PA55

For the needs of today and the demands of tomorrow.



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