Specialist Geomembranes

GP® 5 Gas Barrier Technical Data Sheet

Juta 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.

Juta GP® 5 is suitable for the following applications:

- VOC contaminated sites (site specific assessment required)
- Carbon dioxide and methane affected sites in accordance with BS8485:2015+A1:2019 & NHBC
- Radon affected sites in accordance with BRE211:2015
- Damp protection in accordance with Building Regulations Part C

The information herein is based upon data obtained by the manufacturer and is considered accurate. However, no warranty is expressed or implied regarding the accuracy of this data. This information is furnished upon the condition that the person receiving it shall evaluate its suitability for the specific application.

Juta GP® 5			
Characteristics	Test Method	Unit	Juta GP® 5
Physical Properties			
Thickness	EN 1849-2	mm	0.4
Width	EN 1849-2	m	Various
Length	EN 1849-2	m	Various
Weight	EN 1849-2	g/M ^{2}	400
Hydraulic Properties			
Resistance to Water Penetration	EN 1928 (A)	-	Pass
Mechanical Properties			
Resistance to Static Load	EN 12730	Kg	>20
Tensile Strength MD Tensile Strength CMD	EN 12311-2 (A)	N/50mm	>300
Resistance to Tearing (Nail Shank) MD Resistance to Tearing (Nail Shank) CMD	EN 12310-1	N	>230
Impact Resistance	EN 12691-B	mm	500
Puncture Resistance	ASTM D 4833	N	>160
Puncture Resistance	EN12236	KN	1.60
Reaction to Fire	EN 13501-1	-	E
Vapour Permeability			
Methane Permeability	BS EN ISO 15105-1	ml/m^2/day/atm	0.12
Carbon Dioxide Permeability	BS EN ISO 15105-1	ml/m^2/day/atm	1.53
Hydrogen Permeability	BS EN ISO 15105-1	ml/m^2/day/atm	68.7
Benzene Permeability	BS EN ISO 15105-1	ml/m^2/day	0.41
Oxygen Permeability	BS EN ISO 15105-1	ml/m^2/day	<3
Radon Permeability	K124/02/95	m^2/s	1.0 x 10^{-12}
Fuel Vapour Permeability			
Petrol	BS EN ISO 15105-2	/mol/(m2.s.Pa)	(ave.) 3.4 x 10^{-13}
Diesel	BS EN ISO 15105-2	/mol/(m2.s.Pa)	(ave.) 3.4 x 10^{-13}
Durability			
Durability watertightness after artificial ageing	EN1928	-	Pass
Durability watertightness against chemicals	EN1928	-	Pass
Compliance and Certification			
CE Mark - EN13967:2012			
NHBC Standards Compliant			
BS 8485:2015 + A1 2019 Accordant			

Values are typical with the exception of Thickness which is nominal. Typical indicates the mean value derived from the samples taken for any one test as defined in the BS EN ISO standard - usually the mean of five samples. Nominal is a guide value.

Spec 5.3 Rev. A

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