

GX Hydrocarbon UDG

Urban Drainage Geomembrane System



- Suitable for various demanding geomembrane applications
- Conforms to Appendix C of CIRIA C697 & C753
- Excellent welding characteristics
- Superior puncture and waterproofing characteristics
- Low permeability to hydrocarbon substances and vapours

Description

Visqueen GX Hydrocarbon UDG is a coextruded thermoplastic geomembrane suitable for attenuation tanks and permeable paving systems where hydrocarbons exist and is VOC decay resistant. The product is black/grey in colour, 1mm thick and supplied in 2.44m x 41m.

Application

Visqueen GX Hydrocarbon UDG is a robust weldable geomembrane suitable for attenuation tank encapsulations, porous sub-base installations, containment and cut-off trenches. The product is suitable for use where sites are affected by various Hydrocarbons and VOCs. Please see test data below for permeability and immersion results.

Visqueen GX Hydrocarbon UDG is a chemically inert membrane offering designers and specifiers a range of critical properties that meet the needs of today's demanding geomembrane applications including high water table sites.

The membrane must be only welded together where jointing is required.

Additional System Components

- Visqueen Preformed GX Top Hat Unit – preformed pipe sleeve unit for sealing around pipe penetrations
- Visqueen TreadGUARD1500 – HDPE board for protecting the membrane from damage after installation
- Visqueen TreadGUARD300 – woven PP fleece for protecting the membrane from damage after installation

Installation

Visqueen GX Hydrocarbon UDG should be installed on a blinded or smooth surface, free from sharp protrusions. Avoid areas of unsupported membrane. Adequate protection, such as Visqueen TreadGUARD1500 or 300, should be applied over the membrane to prevent damage after installation.

Visqueen GX Hydrocarbon UDG exhibits superior welding properties, making it ideal for on-site welding of joints.

Storage and Handling

Store in a warm clean and dry environment. Visqueen GX Hydrocarbon UDG is classified as non-hazardous. It is chemically inert and is not affected by acids and alkalis that may be present in the subsoils. The material is not recommended for uses where it will be exposed to long periods of outdoor weathering, such as exposure to ultraviolet light that will embrittle the product. Care should be taken to avoid accidental damage when handling the membrane on site. Installation is not recommended below 5°C. The rolls weigh 65 kilos and care should be taken when handling.



Technical Support

For advice on design, detailing or installation, contact Visqueen Specification Sales Office on tel: 0333 202 6800



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Product Data

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heading	Characteristic	Test method	Units	Compliance criteria	Value or Statement
	Colour				Grey & Black
	Length	EN 1848-2	m	-0/+10%	41
	Width	EN 1848-2	m	-0/+10%	2.44
	Thickness	EN 1849-2	mm	+/-10%	1
	Weight		kilos		97
	Methane permeability	ISO 15105-1	mls/m ² /d	<40	Pass
	Puncture	BS EN ISO 12236:2006	N	MDV	2850
	Impact resistance Method A hard surface	EN12691	mm	MDV	750
	Impact resistance Method B soft surface	EN12691	mm	MDV	>2000
	Watertightness - 60kPa	EN 1928	-	Pass/Fail	Pass
	Tensiles Yield strength MD	ASTM D4885-01	kN/m	MDV	11.9
	Tensiles Yield strength CD	ASTM D4885-01	kN/m	MDV	12.7
	Elongation @ break MD	ASTM D4885-01	%	MDV	>500
	Elongation @ break CD	ASTM D4885-01	%	MDV	>501
	Tear resistance - trouser method A - MD	BS ISO 34-1	kN/m	MDV	79.6
	Tear resistance - trouser method A - CD	BS ISO 34-1	kN/m	MDV	75.8
	Tear resistance - angle method B - MD	BS ISO 34-1	N	MDV	128.3
	Tear resistance - angle method B - CD	BS ISO 34-1	N	MDV	126.9
	benzene	ISO 15105-2	mls/m ² /d	MDV	<1
	toluene	ISO 15105-2	mls/m ² /d	MDV	<1
	ethyl benzene	ISO 15105-2	mls/m ² /d	MDV	<1
	m,p xylene	ISO 15105-2	mls/m ² /d	MDV	<1
	hexane	ISO 15105-2	mls/m ² /d	MDV	<1
	vinyl chloride	ISO 15105-2	mls/m ² /d	MDV	<1
	tetrachloroethene (PCE)	ISO 15105-2	mls/m ² /d	MDV	<1
	trichloroethene (TCE)	ISO 15105-2	mls/m ² /d	MDV	<1
	naphthalene	ISO 15105-2	mls/m ² /d	MDV	<1



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Appendix A

About Visqueen

Visqueen is the market leader in the manufacture and supply of structural waterproofing and gas protection systems. Visqueen offers the complete package – a proven, reliable range backed by a technical support service that goes unmatched in the market - everything you would expect from a reputable and ethical company.

Complete Range, Complete Solution

- Structural Waterproofing
- Damp Proof Course
- Damp Proof Membranes
- Gas Protection and Gas Venting
- Vapour Control Layers
- Stormwater Protection

Download Library

- Technical Datasheet
- Standard Details
- Technical Service
- Visqueen Gas Protection Brochure
- NBS Clauses
- BBA Certificates
- Material Safety Datasheets
- Specification Guide

Find your local stockist

Search our directory of Visqueen specification [Specialist Centres](#) to locate your nearest Visqueen Partner.

Technical support throughout your project

We are specialists in our field and can help you specify the correct solutions with the necessary performance levels, in accordance with building regulations.

- Nationwide site support team
- Specification advice
- Installation guidance & project sign off
- System design including CAD details

CPD Seminars and Training Academy



Gas Protection CPD

The specification, technical design, and installation of gas protection systems, enabling the sustainable regeneration of brownfield sites.



Structural Waterproofing CPD

The specification, technical design, and installation of structural waterproofing systems for protection against water and damp ingress in both above and below ground projects.



Visqueen Training Academy

We are now able to offer exclusive in depth training opportunities on a wide variety of Visqueen products at our Training Academy.



Visqueen Special Projects

We provide high-level expertise, comprehensive support and experience in all types of waterproofing and gas protection.

VISQUEEN

Part of RPC bpi group

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