

Corden EPS Hydrocarbon Barrier – Gas and Hydrocarbon Barrier is a unique blended, single layer, polyethylene membrane. EPS Hydrocarbon Barrier is specifically designed and manufactured to perform as a methane, carbon dioxide, radon, ground gas, VOC, air & moisture and hydrocarbon protection system.

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

Corden EPS Hydrocarbon Barrier			
Characteristic	Test Method	Unit	EPS HC Barrier
Physical Properties			
Thickness	EN 1849-2	mm	1
Width	EN 1849-2	M	1.3
Length	EN 1849-2	M	20
Weight	EN 1849-2	g/m ²	921
Hydraulic Properties			
Water Vapour Permeation	EN 1932	g/m ² /day	0.08
Resistance to water penetration	EN 13967, EN 1928	-	PASS
Water tightness	EN 1928	-	PASS
Mechanical Properties			
Resistance to Static Load	EN 12730 - B	Kg	20
Tensile Strength (MD)	EN 12311 -1	N/mm ²	24
Tensile Strength (CMD)	EN 12311 -1	N/mm ²	22
Tensile Elongation (MD)	EN 12311 -1	%	398
Tensile Elongation (CMD)	EN 12311 -1	%	446
Puncture Resistance	EN 12236	kN	1.25
Resistance to tearing (nail shank) MD	EN 12310 - 1	N	700
Resistance to tearing (nail shank) CMD	EN 12310 - 1	N	750
Durability and Chemical Resistance			
Transmission rate of volatile liquids - Diesel	ISO 6179:2010 (B)	g/m ² /h	0.096
Transmission rate of volatile liquids - Xylene	ISO 6179:2010 (B)	g/m ² /h	4.845
Transmission rate of volatile liquids - Toulene	ISO 6179:2010 (B)	g/m ² /h	6.695
Transmission rate of volatile liquids - Petrol	ISO 6179:2010 (B)	g/m ² /h	5.172
Heat Ageing	EN 1926	-	Pass
Chemical Resistance	EN 1847	-	Pass
Resistance to Fire	EN 13501-1	Class	F
Resistance to Low Temperature	EN 495-5	-	Pass @ -40oC

Gas Permeability			
Methane Permeability	BS EN ISO 15105 - 1	ml/m ² /day/atm	28
Carbon Dioxide Permeability	BS EN ISO 15105 - 1	ml/m ² /day/atm	<28
Radon Permeability	K124/02/95	m ² /s	9.5 x 10 ⁻¹²
Compliance and Certification			
CE Mark - EN13967:2012			
NHBC Standards Compliant			
BS 8485:2015 Compliant			
Durability and Chemical Resistance			
Chemical Resistance - ACID	EN 14414 - A	MD % Change	-367
		CMD % Change	-488
Chemical Resistance - BASIC	EN 14414 - B	MD % Change	-388
		CMD % Change	-487
Chemical Resistance - SOLVENTS	EN 14414 - C	MD % Change	-388
		CMD % Change	-518
Resistance to Leaching - HOT WATER	EN 14415 - A	MD % Change	-377
		CMD % Change	-404
Resistance to Leaching - AQUEOUS ALKALINE	EN 14415 - B	MD % Change	-361
		CMD % Change	-428
Resistance to Leaching - ORGANIC ALCOHOL	EN 14415 - C	MD % Change	-388
		CMD % Change	-449

**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.*

HANDLING

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

STORAGE

Rolls of EPS HC Barrier 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.

INSTALLATION

EPS HC Barrier should be installed in accordance with the product installation guidelines, and in accordance with BS 8485:2015.

JOINTING AND SEALING

It is recommended EPS HC Barrier 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. EPS HC Barrier 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. Corden EPS pre-formed details, or Self Adhesive Gas Membrane are available for sealing around protuberances.

ACCESSORY PRODUCTS

A wide range of accessories are available for use with the EPS HC Barrier.

ADDITIONAL INFORMATION

For additional information or assistance, please contact Corden EPS directly.

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