

Corden EPS Hydrocarbon Barrier – Hydrocarbon and Gas Barrier is a mono layer, high density polyethylene membrane. EPS Hydrocarbon Barrier is specifically designed and manufactured to perform as a hydrocarbon and VOC, air & moisture protection system.

Corden EPS Hydrocarbon Barrier complies with the latest codes of practice as published by BRE and CIRIA. Suitable for use as gas protection for NHBC GREEN and AMBER 1 site characterisations. Corden EPS Hydrocarbon Barrier is also suitable as a hydrocarbon barrier.

Corden EPS Hydrocarbon Barrier - Geomembrane				
Characteristic	Test Method	Unit	EPS	
Thickness	EN 1849-2	mm	1.0	1.5
Width	EN 1849-2	M	2.5 or 5.1	2.25
Length	EN 1849-2	M	35 or 100	100 or 25
Density	EN ISO 1183	g/cm <sup>3</sup>	0.939	
<b>Hydraulic Properties</b>				
Permeability to liquids	EN 14150	-	1.0 x 10 <sup>-6</sup>	
Water Vapour transmission	EN 1931	M	300	
Water tightness	EN 1928	-	PASS	
<b>Mechanical Properties</b>				
Resistance to Static Load	EN 12730 - B	Kg	>20	>20
Tensile Strength (MD)	EN 12311 -1	N/50mm	850	1000
Tensile Strength (CMD)	EN 12311 -1	N/50mm	850	1000
Tensile Elongation (MD)	EN 12311 -1	%	950	950
Tensile Elongation (CMD)	EN 12311 -1	%	950	950
Puncture Resistance	EN 12236	kN	3.2	4.3
Resistance to impact	EN 12691	mm	>700	
Tear Strength	ISO 34-1	N	140	
Shear resistance of welded joint	EN 12317 - 2	N/50mm	850	
<b>Durability and Chemical Resistance</b>				
Transmission rate of volatile liquids - Diesel	ISO 6179:2010 (B)	g/m <sup>2</sup> /h	0.047	0.026
Transmission rate of volatile liquids - Xylene	ISO 6179:2010 (B)	g/m <sup>2</sup> /h	1.886	0.549
Transmission rate of volatile liquids - Toulene	ISO 6179:2010 (B)	g/m <sup>2</sup> /h	4.432	0.987
Transmission rate of volatile liquids - Petrol	ISO 6179:2010 (B)	g/m <sup>2</sup> /h	2.318	0.623
<b>Gas Permeability</b>				
Methane Permeability	BS EN ISO 15105 - 1	ml/m <sup>2</sup> /day/atm	<55	
Carbon Dioxide Permeability	BS EN ISO 15105 - 1	ml/m <sup>2</sup> /day/atm	<55	
Radon Permeability	K124/02/95	m <sup>2</sup> /s	8.0 x 10 <sup>-12</sup>	
<b>Compliance and Certification</b>				
CE Mark - EN13967:2012				
NHBC Standards Compliant				

### Installation

Corden EPS Hydrocarbon Barrier should be installed in accordance with the product installation guidelines.

### Jointing and sealing

It is recommended Corden EPS Hydrocarbon Barrier be heat welded where possible, with welding carried out by competent personnel with suitable qualifications in accordance with best practice, and guidance. Corden EPS Hydrocarbon 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.

<b>Durability and Chemical Resistance</b>			
Chemical Resistance	EN 14414:2004	MD % Change	108
	EN 14414:2004	CMD % Change	104
Artificial Ageing (long term exposure 60kPa)	EN 1296 + EN 1928	-	Complied
Exposure to liquid chemicals (60kPa)	EN 1847 + EN 1928	-	Complied
Stress Crack Resistance	EN 14576	h	>500
Exposure to Bitumen (60kPa)	EN 1548 + EN 1928	-	Complied
Resistance to Weathering	EN 12224	-	to be covered within 1 year
Resistance to Oxidation	EN 14575		reduction of tensile elongation <25%
Carbon Black Content	EN ISO 11358	%	2-3
Reaction to fire	EN 13501-1	-	E



### Handling & Storage

Roll weights will be in excess of 20kg and hence appropriate care and equipment is required for unloading and handling. Rolls of Corden EPS Hydrocarbon 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.

### Accessory products

A wide range of accessories are available for use with the Corden EPS Hydrocarbon Barrier, including:

- EPS GAS TAPE
- EPS GRM SELF ADHESIVE MEMBRANE
- EPS PRIME
- EPS TOP HATS AND PREFORMED CORNERS CLOAKS
- EPS PROTECTION FLEECE
- EPS GEO-VENT VOID FORMER (25/40mm)

### Additional information

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