

Application:

The MONARFLEX® Gridline 1000 membrane is a geo and moisture barrier to be used over the foundation of houses and buildings, separating different material etc.

Properties:

The MONARFLEX® Gridline 1000 membrane is a four layer moisture barrier with two layers of blown film and reinforcing grid laminated together by a coater layer.

Product data	MONARFLEX® Gridline 1000			
Composition:				
Top layer	black LDPE blown film			
Coater layer	black LDPE			
Grid layer	Grid, 12x12mm, 1100 dtex, polyester			
Bottom layer	black LDPE blown film			
Colour	Black			
Application	100-150 mm overlapping and either sealed with double-sided butyl tape or welded together by Monarflex Extrusion Welding.			
Technical data	Unit	Value	Tolerance	Test method
Length	m	25 / 50 / 75 / 100	+1% -0%	EN 1848-2
Width	m	4,00	+/- 2%	EN 1848-2
Thickness	mm	1,1	+/- 10%	EN 1849-2
Weight	g/m ²	950	+/- 5%	EN 1849-2
Straightness	Pass/Fail	Pass		EN 1848-2
Visible defects	Visible	No visible defects		EN 1850-2
Tensile strength	N/50mm	MD: > 750		EN 12311-2
		CD: > 700		
Elongation	%	MD: 20		EN 12311-2
		CD: 16		
Water tightness	kPa	20		EN1928, method B
Dimensional stability	%		-0,9 / -0,1%	EN1107-2
Sd value	m	>150	±50	EN 1931
Water vapour transmission	kg/(m ² .s.Pa)	1,5x10 ⁻⁹	0,5 x 10 ⁻⁹	EN 1931
Tear resistance	N	MD: > 300		EN12310-1
		CD: > 250		
Resistance to static loading	N	Pass at 200N		EN 12730, Method B
Temperature range	°C	-40 to 180		
Puncture resistance	N	270		FTMS-101C
Cold flexibility	°C	Pass at -30°C		MFx test
Bitumen compatibility	Pass/Fail	Pass class W1		EN 1548
Joint strength, tape	N/50mm	>60 N		EN 12317-2
Water tightness to liquid water	kPa	Pass at 2 kPa		EN1928
Durability of water tightness against ageing	kPa	Pass at 2kPa		EN 1296
Durability of water tightness against chemicals	kPa	Pass at 2 kPa		EN 1847
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