

Monarflex RAC



EN 13967

06

1162-CPD-0254

Type A

TECHNICAL DATA SHEET

Surface Upper	Grey LDPE film with UV stabilisers
Type of Reinforcement	12 mm x 12 mm grid of multifilament polyester 1670 dtex
Barrier Layer	12 micron aluminium film
Surface Lower	Clear LDPE film with UV stabilisers
Colour	Sand upper and clear/aluminium lower

Characteristic	Test method	Value or statement	Units	Tolerance
Visible defects	EN 1850-2	pass	-	-
Length	EN 1848-1	25	m	-0 / +1 %
Width	EN 1848-1	2.0	m	-0.5 / +1.5 %
Straightness	EN 1848-1	< 75	mm/10m	-
Mass per unit area	EN 1849-2	800	g·m ⁻²	± 5 %
Thickness	EN 1849-2	0.8	mm	-10 / +25 %
Tensile strength	EN 12311-1	>800 (MD); >800 (TD)	N/50 mm	-
Elongation	EN 12311-1	>15 (MD); >15 (TD)	%	-
Nail Tear Strength	EN 12310-1	>600 (MD); >600 (MD)	N	-
Impact to static loading	EN 12730 (B)	pass at 200N	-	-
impact resistance	EN 12691 (A)	<250	mm	-
Water vapour transmission	EN 1931	0.25	g·m ⁻² ·day ⁻¹	± 0.05
Water vapour permeance	EN 1931	6.18 x 10 ⁻¹⁴	m ² ·s·Pa·kg ⁻¹	± 20 % rel
Equiv. air thickness	EN 1931	S _d = >1500	m	-
Methane gas transmission	DTi Internal test	<0.005	cm ³ ·hm ⁻² ·atm ⁻¹	-
Bitumen compatibility	EN 1548	pass (Class W1)	-	-
Reaction to fire	EN 13501-1	Class F	-	-
Joint Strength (taped)	EN 12317-2	>57	N/50 mm	-
Joint Strength (weld)	EN 12317-2	>100	N/50 mm	-
Resistance to impact	EN 12691 (A)	<200	mm	-
Water tightness	EN 1928 (A)	pass	-	-
Durability of water tightness against ageing	EN 1296	pass at 2 kPa	-	-
Durability of water tightness against chemicals	EN 1847	pass at 2 kPa	-	-

NPD = No Performance Declared. MD = Machine Direction. TD = Transverse Direction.

Description of product

Monarflex RAC is a nine layer gas and moisture barrier. It has a high nail and tear strength due to the strong reinforcing grid. The product incorporates an aluminium foil for extreme levels of gas and vapour resistance.

Type of application

Monarflex RAC is intended for use as a gas dpm in solid concrete ground floors not subject to hydrostatic pressure, to protect buildings against moisture from the ground. The membrane is unrolled loose, and with an overlap of minimum 150 mm and is hot-air welded or tape sealed with Monobond butyl sealant tape. Membranes should be installed in accordance with the manufacturer's guidelines.

Compatibility

The material is compatible with all materials normally used in its application. There are no harmful side effects associated with this material.

Storage & Transportation

Rolls are delivered on pallets, covered with shrink wrapped bag. These materials should, when removed from pallets, be stored on side, under cover and on a flat, level surface, and protected from mechanical damage and heat sources. During storage exposure to direct sunlight is to be avoided.

Factory Ref: S0001-01-101

NOTE: This information is given in good faith being based on the latest knowledge known to Icopal Limited. Whilst every effort has been made to ensure the contents of the publication are current while going to press, customers are advised that products, techniques and Codes of Practice are under constant review and liable to change without notice.