



Viking Epiclad EPDM Rubber Membrane

Product Information

Description

Elastomeric Rubber Roofing and Waterproofing Membrane

Viking Epiclad is made from EPDM, an inert polymer made by co-polymerising Ethylene and Propylene with small amounts of another polymer.

Viking Epiclad EPDM, due to particular properties in the formulation, maintains superior resistance to heat aging, weathering, UV and Ozone exposure, ensuring long life and uncompromised weather tight performance.

Viking Epiclad EPDM membranes are manufactured in widths of up to 6.0m, which means fewer joints, compared to other membrane solutions, dramatically reducing the opportunity for joint failure. In addition to roofing EPDM membranes are commonly used for irrigation pond and reservoir linings.

Viking Epiclad EPDM is manufactured in the USA by Carlisle Syntec Systems.

Applications

- Industrial, commercial and residential flat roof areas
- Enclosed decks
- Pond and reservoir linings

Dimensions

Thickness (mm)	Roll Width (m)	Roll Length (m)	Weight kg/m ²
1.14	2.1	15.2	1.44
1.14	3.0	15.2	1.44
1.14	6.0	15.2	1.44
1.52	3.0	15.2	1.89
1.52	6.0	15.2	1.89

Note: The above sizings are available ex stock. Other sheet sizes are available on indent - up to 15m wide x 45m long (made to order). See your Viking Roofspec representative for further information.

Finishes and Colours

Smooth finish both sides. Black available ex stock, white available on indent only.

Epiclad EPDM Physical Properties

1.14mm and 1.52mm Thick Non-Reinforced EPDM Membrane Standard (Std) and Fire Retardant (FR)

Both the 1.14mm and 1.52mm thick EPDM membranes are available in standard (STD) and Fire Retardant (FR), which may be utilised to comply with specific Underwriters Laboratories (UL) code requirements. Refer to the Carlisle Code Approval Guide, published separately, for specific UL approved assemblies.

Standard only available ex stock New Zealand.

Physical Property	Test Method	Spec. Metric (Pass)	Typical	
			Standard	FR
Tolerance on Nominal Thickness, %	ASTM D 412	±10	±10	±10
Tensile Strength, min (MPa)	ASTM D 412	9	10.7	10.7
Elongation, Ultimate, min, %	ASTM D 412	300	480	480
Tear Strength, min (kN/m)	ASTM D 624 (Die C)	26.3	35.0	35.0
Factory Seam Strength, min	Modified ASTM D 816	Membrane Rupture	Membrane Rupture	Membrane Rupture
Resistance to Heat Ageing* Properties after 4 weeks @ 116°C	ASTM D 573			
Tensile Strength, min (MPa)	ASTM D 412	8.3	10.3	10.3
Elongation, Ultimate, min, %	ASTM D 412	200	225	225
Tear Strength, min (kN/m)	ASTM 624	21.9	37.6	37.6
Linear Dimensional Change, max, %	ASTM D 1204	±1	-0.4	-0.4
Ozone Resistance* Condition after exposure to 100 pphm Ozone in air for 168 hours @ 40°F Specimen is at 50% strain	ASTM D 1149	No Cracks	No Cracks	No Cracks
Brittleness Temp, max (deg C)	ASTM D 746	-45	-55	-55
Resistance to Water Absorption* After 7 days in immersion @ 70°C Change in mass, max %	ASTM D 471	+8, -2	2.0	2.0
Water Vapour Permeability* max, perm-mils	ASTM E 96 (Proc B or BW)	0.10	0.05	0.05
Resistance to Outdoor (Ultraviolet) Weathering* Xenon-Arc 7560 kj/m ² total radiant exposure at 0.70 W/M ² irradiance, 80°C black panel temperature	ASTM G 26 No Crazing	No Cracks No Crazing	No Cracks No Crazing	No Cracks

* Not a Quality Control Test due to the time required for the test or the complexity of the test. However, all tests are run on a statistical basis to ensure overall long-term performance of the sheeting.

Viking Epiclad EPDM Cross-reference



The information listed below is identical for Viking Epiclad and Viking Butylclad rubber membranes, so can be found in the Viking Butylclad section.



Masterspec Specification Details	1.3
BRANZ Appraisal no 307	1.9
Typical Architectural Details	1.15
Membrane System Accessories	1.21
Membrane Care and Maintenance Guide	1.27
Membrane Paint Systems	1.29
Viking Rubber Membranes Product Warranty	1.31