



Standard EPDM Membranes

06/12

PRODUCT DATA

The Roofing & Waterproofing Membrane with Proven Durability

DESCRIPTION & USE

Lexcan Standard EPDM membrane is a synthetic rubber of vulcanized ethylene propylene diene monomer. Possessing excellent weathering, ozone and ultra-violet resistance characteristics, EPDM membrane has long been established as an ideal roofing and waterproofing material. In conjunction with a Lexcan design system featuring the super strong Lexseam™ adhesive/tape seam, Lexcan EPDM offers building owners the security of a proven, long-lasting roof.

Lexcan standard EPDM membrane is available in 1.1 mm (45 mil), 1.5 mm (60 mil) and 2.3 mm (90 mil) thicknesses and in sheet sizes up to 15.24 m (50 ft.) wide by 45.72 m (200 ft.) long. Standard EPDM membrane is available in black or white colours.

Lexcan EPDM membrane may be used in three different roof design systems, namely:

- Design A: Adhesive Adhered EPDM System
- Design B: Loose Laid & Ballasted EPDM System
- Design C: Protected Membrane EPDM System

The reader is referred to Lexcan's System Data bulletins and system specifications for further information on Lexcan design systems. Lexcan standard EPDM may also be used as a waterproofing liner in reflecting ponds, reservoirs and chemical containment tanks. Lexcan technical representatives should be consulted for assistance in determining the suitability of EPDM for a particular chemical liner application.

FEATURES & BENEFITS

- **Superior Weatherability** - Lexcan EPDM out-performs traditional built-up, modified bitumen and thermoplastic membranes in long-term weatherability. Highly resistant to ozone or ultra-violet deterioration, a properly installed Lexcan EPDM roof may well outlast the building it is installed on!
- **Flexibility** - Lexcan EPDM remains flexible even in temperatures as low as -45°C. Structural expansion or contraction that would crack or tear other roofing materials does not affect EPDM.
- **Proven Durability** - Lexcan EPDM Roofs have been successfully installed on over 25,000 projects across the country and protected buildings for over 45 years.
- **The Backing of Lexcan** - Canada's premier supplier of single-ply roofing systems. No other company can match Lexcan's breadth and background of experience and success in Canadian roofing.



Unrolling Standard EPDM Membrane Sheet

TECHNICAL DATA

Property	Test Method	Specification	Typical Value
Nominal Thickness	ASTM D412	± 10%	± 10%
Weight, 1.1 mm (45 mil)			1.3 kg / m ² (0.26 lbs/ft ²)
1.5 mm (60 mil)			1.7 kg / m ² (0.35 lbs/ft ²)
2.3 mm (90 mil)			2.9 kg / m ² (0.59 lbs/ft ²)
Tensile Strength, min	ASTM D412	9 MPa (1305 psi)	11.0 MPa (1600 psi)
Factory Seam Strength, min	ASTM D816 (modified)	Membrane Rupture	Membrane Rupture
Ultimate Elongation, min	ASTM D412	300%	45 mil = 480% 60 mil = 465%
Tear Resistance, min	ASTM D D624 Die C	26.3 kN/m (150 lbf/in)	35.0 kN/m (200 lbf/in)
Brittleness Temp., max	ASTM D746	-45°C	-45°C
Water Absorption* Change in mass after 168 hours immersion @ 70°C, max	ASTM D471	+8%, -2%	+2.0%
Water Vapour Permeance, max*	ASTM E96 Proc. B or BW	0.10 perms	45 mil = 0.05 perms 60 mil = 0.03 perms
Ozone Resistance* 168 hours @ 100 pphm, 40°C	ASTM D1149	No Cracks	No Cracks @ 50% Strain
Outdoor (UV) Weathering* Xenon-Arc, 7560 kJ/m ² @ 0.70 W/m ² , 80°C black panel	ASTM G155	No Cracks No Cracking	No Cracks No Cracking
Resistance to Heat Aging* 672 hours @ 116°C			
Tensile Strength, min	ASTM D412	1205 psi	45 mil = 1500 psi 60 mil = 1450 psi
Ultimate Elongation, min	ASTM D412	200%	45 mil = 225% 60 mil = 280%
Tear Resistance*	ASTM D D624 Die C	21.9 kN/m (125 lbf/in)	37.6 kN/m (225 lbf/in)
Linear Dimensional Change	ASTM D 1204	± 1.0%	45 mil = -0.4% 60 mil = -0.5%

*: All tests are run on a statistical basis to ensure overall long-term performance of the sheeting. Not a Quality Control Test.

LEED INFORMATION

Pre-consumer Recycled Content	0%
Post-consumer Recycled Content	3%
Solar Reflectance Index	9

INSTALLATION / SPECIFICATION

Standard EPDM membrane can be either fully adhered to a substrate with Lexcan bonding adhesive or loose laid and covered with ballast. Adjoining sheets are spliced together using the Lexseam™ tape adhesive method. For complete instructions on the installation of a Lexcan EPDM or waterproofing system, please refer to the appropriate design guide and sample specification, available from our website or your Lexcan representative.



Ontario Place: A Lexcan EPDM Roof installed in 1968