The Waterproofing Membrane with proven durability

PRODUCT DESCRIPTION

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.

USES

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

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

- **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 -60°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 35 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.

TECHNICAL DATA

PROPERTY	ASTM TEST	SPECIFICATION	TYPICAL VALUE
Nominal Thickness	ASTM D751	±10%	±10%
Tensile Strength	ASTM D412	9 MPa (1305 psi)min.	10.7 MPa (1550 psi)
Ultimate Elongation	ASTM D412	300% min.	480%
Tear Resistance	ASTM D624 Die C	26.3 kN/m (150 lbf/in)min.	35.0 kN/m (200 lbf/in)min.
Factory Seam Strength, min.	D 816 (modified)	Stmger than Membrane	Stronger than Membrane
Ozone Resistance Condition after exposure to 100 pphm Ozone in air for 7 days @ 40°C Specimen @ 50% Strain	ASTM D1149	No Cracks	No Cracks
Brittleness Temp.	ASTM D 2137	-45°C	-55°C
Water Absorption Change in mass, after 168 hrs immersion @ 70°C	ASTM D471	+8, -2%	+2.0%
Vapour Transmission* Rate	ASTM E96 (Proc. B or BW)	.01 ng/ (Pa•s•m²) 0.10 perms	.005 ng/ (Pa•s•m²) 0.05 perms
Resistance to Outdoor (UV) Weathering Xenon-Arc, 7560 kj / m² @ 0.70W/m², 80ºC black panel	ASTM G155 ASTM D4637	No Crazing No Crazing	No Crazing No Crazing
Resistance to Heat Aging* Properties after 28 days@ 40°C	ASTM D 573		
Tensile Resistance	ASTM D412	8.3 MPa (1205 psi) min.	10.3 (1550 psi)
Ultimate Elongation	ASTM D412	200 %	225 %
Tear Resistance	ASTM D624 Die C	21.9 kN/m (125 lbf/in.)	37.6 kN/m (215 lbf/in.)
Linear Dimensional Change	ASTM D1204	+1.0%	-0.4%

•: Test performed on unreinforced compound, vulcanized in a similar method to reinforced product.
N.A.: Test not applicable to type of membrane

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 roofing system, please refer to Lexan "Guide Specification and Installation" booklet. Copies are available through your Lexcan Representative.