

LEXCAN

HI-FLEX EPDM

Fleece-Backed CA Membrane

DESCRIPTION

Lexcan Hi-Flex Fleece-backed CA EPDM Membrane is a fleece-backed EPDM membrane specifically designed for exposed or non-exposed adhered roofing and waterproofing applications. It is constructed of 1.1 mm (45 mil), 1.5 mm (60 mil) or 2.3 mm (90 mil) thick EPDM (Ethylene Polypropylene Diene Monomer) synthetic rubber bonded to a proprietary 1.4 mm (55 mil) fleece backing. Available in black and white.

USE

Ideal for re-roofing or new construction projects, Hi-Flex Fleece-backed CA EPDM Membrane is designed to be adhered to an acceptable substrate with cold process adhesives such as Lexcan's water based BA-160 Bonding Adhesive or solvent based BA-90 Bonding Adhesive. Substrates must be approved to accept the bonding medium being considered (i.e.: cold adhesive). Note: Lexcan has other fleece-backed membranes specifically designed for application with hot asphalt. Contact Lexcan for more information on our Hi-Flex EPDM Fleece-backed Membranes.

Hi-Flex Fleece-backed CA EPDM Membrane can be used for Roof Garden, Plaza Deck and Solar applications, as well as projects demanding superior wind uplift resistance.

FEATURES & BENEFITS

- **Superior Performance & Longevity** - The membrane's upper wearing surface is Hi-Flex EPDM; a material with exceptional weathering, ozone, ultra-violet and cold temperature resistance that has been proven in use for over 45 years.
- **Heavy Duty Fleece Backing** - adds toughness, durability and enhanced puncture resistance.
- **Extra Waterproofing Protection** - Reinforced by the fleece, the cold adhesive bonding medium can act as a secondary waterproofing layer underneath the EPDM membrane. This also creates superior wind uplift performance
- **Pre-applied Seam Tape** - Improves reliability and consistency, as well as productivity enhanced seaming. (optional)
- Both black and white membranes are UL Class A Rated

CAUTIONS & LIMITATIONS

- Hi-Flex Fleece-backed EPDM Membrane must stay dry before installation. If the fleece gets wet, remove moisture with a wet vac system.
- Membrane is slippery when wet. Use caution when walking on wet membranes.

APPROVALS & COMPLIANCES

Lexcan Hi-Flex EPDM roof systems have been tested and meet the requirements of:

- Factory Mutual Research Corp.
- Underwriters' Laboratories Inc.

For further information on specific listings and approvals, refer to the appropriate listing book or consult your Lexcan representative.

WARRANTY

Superior installation quality and long term performance is guaranteed with comprehensive Lexguard warranty packages. To provide the best assurance of a quality installation, projects are normally inspected both during installation and after completion by a Lexcan Technical representative.

INSTALLATION AND SPECIFICATION

For complete information on specifying or installing Hi-Flex Fleece-Backed CA EPDM membrane, please contact your Lexcan representative.

LEED INFORMATION

	Black	White
Pre-consumer Recycled Content	5%	0%
Post-consumer Recycled Content	0%	0%
Solar Reflectance Index	0-1	105

continued on back

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LEXCAN SINGLE PLY ROOFING SYSTEMS

Ontario and Western Canada
1 877 792.8308



Quebec and Eastern Canada
1 800 363.2307

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TECHNICAL DATA

Physical Property	Test Method	SPEC (PASS)	Black	White
Tolerance on Nominal Thickness	ASTM D751	± 10%	± 10%	± 10%
Thickness Over Fleece, min 2.54 mm (100-mil)	ASTM D4637 Annex	.762 mm (.03 mil)	1.14 mm (.045 mil)	1.14 mm (.045 mil)
2.92 mm (115-mil)			1.14 mm (.045 mil)	1.52mm (.060 mil)
3.68 mm (145-mil)			2.03 mm (.08 mil)	2.28 mm (.090 mil)
Weight 2.54 mm (100-mil)	—	—	1.4 kg/m ² (0.29 lbm/ft ²)	1.6 kg/m ² (0.33 lbm/ft ²)
2.92 mm (115-mil)			1.9 kg/m ² (0.38 lbm/ft ²)	2.1 kg/m ² (0.42 lbm/ft ²)
3.68 mm (145-mil)			2.4kg/m ² (0.59 lbm/ft ²)	3.1 kg/m ² (0.63 lbm/ft ²)
Breaking Strength , min 2.54 mm (100-mil), 2.92 mm (115-mil) 3.68 mm (145-mil)	ASTM D751 Grab Method	400 N (90 lbf)	890 N (200lbf) 1,112 N (250 lbf)	890 N (200 lbf) 934 N (210 lbf)
Elongation , Ultimate, min	ASTM D412	300%**	480%**	500%**
Tearing Strength , min 2.54 mm (100-mil), 2.92 mm (115-mil) 3.68 mm (145-mil)	ASTM D751 B Tongue Tear	45 N (10 lbf)	200 N (45 lbf) 266 N (60 lbf)	200 N (45 lbf) 200 N (45 lbf)
Puncture Resistance 2.54 mm (100-mil) 2.92 mm (115-mil) 3.68 mm (145-mil)	ASTM D5635	—	15 Joules 20 Joules 25 Joules	25 Joules 25 Joules 32 Joules
Puncture Resistance 2.54 mm (100-mil) 2.92 mm (115-mil) 3.68 mm (145-mil)	FTM 101C Method 2031	—	328 lbf 338 lbf 355 lbf	316 lbf 325 lbf 307 lbf
Puncture Resistance 2.54 mm (100-mil) 2.92 mm (115-mil) 3.68 mm (145-mil)	ASTM D120	—	18 lbf 22 lbf 28 lbf	17 lbf 19 lbf 22 lbf
Hail Resistance 2.54 mm (100-mil) 2.92 mm (115-mil) 3.68 mm (145-mil)	UL 2218 Over Iso HP Rec. Bd. Gypsum Bd.	Class 4 Rating 2" Steel Ball at 20'	Pass Pass Pass	Pass Pass Pass
Brittleness point , max, °C (°F)	ASTM D2137	-45°C (-49°F)	-55°C (-67°F)	-55°C (-67°F)
Resistance to Heat Aging * Properties after 4 weeks @ 116°C (240°F) for black, 1 week @ 116°C (240°F) for White	ASTM D573			
Breaking Strength , min Elongation, Ultimate, min, Linear Dimensional Change, max	ASTM D751 ASTM D412 ASTM D1204	80 N (355 lbf) 200%** ±1.0%	200 N (890 lbf) 22%** -0.7%	200 N (890 lbf) 250%** -0.7%
Ozone Resistance * Condition after exposure to 100 pphm Ozone in air for 168 hours @ 40°C (104°F) Specimen wrapped around 7.5cm(3-inch) mandrel	ASTM D1149	No cracks	No cracks	No cracks
Resistance to Water Absorption * After 7 days immersion @ 70°C (158°F) Change in mass, max,	ASTM D471	+8, -2%**	+2.0%**	+3.6%**
Resistance to Outdoor (Ultraviolet) Weathering * Xenon-Arc, radiant exposure at 0.70 irradiance, 80°C black panel temp.	ASTM G155 ASTM D4637 Conditions	No cracks No crazing 7,560 kJ/m ² 3,000 hrs	No cracks No crazing 41,580 kJ/m ² 16,500 hrs	No cracks No crazing 25,200 kJ/m ² 10,000 hrs

*: Not a Quality Control Test. However, all tests are run to ensure overall long-term performance.

** Typical properties and characteristics are based on samples tested and are not guaranteed for all samples of this product. This data and information is intended as a guide and does not reflect the specification range for any particular property of this product.

Radiative Properties for ENERGY STAR, Cool Roof Rating Council (CRRC) and LEED For White Fleece-Backed EPDM

ENERGY STAR initial solar reflectance	Solar Spectrum Relectometer	0.84
ENERGY STAR solar reflectance after 3 years	Solar Spectrum Relectometer (after cleaning)	0.80
CRRC initial solar reflectance	ASTM C1549	0.76
CRRC solar reflectance after 3 years	ASTM C1549 (uncleaned)	0.64
CRRC initial thermal emittance	ASTM C1371	0.90
CRRC initial thermal emittance after 3 years	ASTM C1371 (uncleaned)	0.87
LEED thermal emittance	ASTM E408	0.91
SRI (Solar Reflectance Index)	ASTM E1980	105

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