

TECHNICAL INFORMATION SHEET

RubberGard™ MAX (Reinforced) EPDM Membrane



Item Description

1 Roll

Item Number

Various

Product Information

Description:

Firestone RubberGard MAX (Reinforced) EPDM Membrane is an internally reinforced, cured single-ply roofing membrane that features a 9 x 9, 1,000 denier polyester weft inserted reinforcing scrim for increased puncture resistance. It is available in 0.045" (1.1 mm), 0.060" (1.5 mm) and 0.075" (1.9 mm) thicknesses. Designed with fire retardants, Firestone RubberGard MAX EPDM Membrane can meet qualification for UL Class A for slopes up to 3" (76.2 mm), depending on the roofing assembly.

NOTE: Firestone RubberGard MAX FR Membrane is also available if higher slope classification is required.

Product Packaging

Membrane Thickness	Width	Length	Weight
0.045" (1.14 mm)	10' (3.05 m)	100' (30.5 m)	0.32 lb/ft ² (1.6 kg/m ²)
0.060" (1.52 mm)	10' (3.05 m)	100' (30.5 m)	0.42 lb/ft ² (2.1 kg/m ²)
0.075" (1.91 mm)	10' (3.05 m)	100' (30.5 m)	0.55 lb/ft ² (2.7 kg/m ²)

Rolls 10' (3.05 m) wide are no-fold panels.

Please contact your Sales or Customer Service Representative for lead time on 0.075" (1.91 mm) thick membrane.

Method of Application:

1. Substrates must be clean, dry, smooth, and free of sharp edges, fins, loose or foreign materials, oil, grease, and other materials that may damage the membrane.
2. All roughened surfaces that can damage the membrane shall be repaired as specified to offer a smooth substrate.
3. All surface voids greater than ¼" (6.3 mm) wide shall be properly filled with an acceptable fill material.
4. RubberGard MAX EPDM Membrane must be installed in accordance with current RubberGard specifications, details and workmanship requirements.

Storage:

- Store away from sources of punctures and physical damage.
- Assure that structural decking will support the loads incurred by material when stored on rooftop. The deck load limitations should be specified by the project designer.
- Store away from ignition sources as membrane will burn when exposed to open flame.

Precautions:

- Review Safety Data Sheets (SDS) prior to use.
- Take care when moving, transporting, handling, etc. to avoid sources of punctures and physical damage.
- Isolate waste products, such as petroleum products, greases, oils (mineral and vegetable) and animal fats from the RubberGard membrane.
- It is important that the side of the sheet imprinted with the direction "This Side Down" be installed in direct contact with the substrate to achieve respective test agency compliance.

LEED® Information:

Post-Consumer Recycled Content: 0%

Post Industrial Recycled Content: 0%

Manufacturing Location: Prescott, AR

*NOTE: LEED® is a registered trademark of the U.S. Green Building Council.



CCMC 13265-L



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Typical Properties (Meets or exceeds ASTM D 4637, Type II scrim-reinforced EPDM Single-Ply roofing membranes)

Property	ASTM Standard	Performance Minimum	Typical Performance 45 mil	Typical Performance 60 mil	Typical Performance 75 mil
Thickness, min, sheet – overall	D 751	0.040" (1.016 mm)	0.043" (1.092 mm)	---	---
		0.054" (1.372 mm)	---	0.054" (1.372 mm)	---
		0.068" (1.727 mm)	---	---	0.074 (1.88 mm)
Coating over scrim	D 751	0.015" (0.381 mm)	0.015" (0.381 mm)	0.022" (0.559)	0.029" (0.74 mm)
Breaking strength, min.	D 751 (Grab Method)	90 lbf (400 N)	180 lbf (800 N)	230 lbf (1023 N)	240 lbf (1068 N)
Dynamic puncture resistance	D 5635 / D5635 M	10 J min @ 73.4 ± 4 °F low slop	Pass	Pass	Pass
Static puncture resistance	D 5602 / D 5602 M	44.1 lbf (20 kg)	Pass	Pass	Pass
Elongation, ultimate, min.*	D 412 (Die C)	250%	400%	---	---
Elongation at fabric break, ultimate, min	D 751	15%	26%	29%	35%
			Machine direction	26%	29%
Tearing strength, min.	D 751 (B-Tongue Tear)	10 lbf (45 N)	60 lbf (267 N)	81 lbf (360 N)	88 lbf (391 N)
Brittleness point, max.	D 2137	-49 °F (-45 °C)	Pass	Pass	Pass
Ozone resistance, no cracks	D 1149	Pass	Pass	Pass	Pass
Heat aging: Breaking strength, min. Elongation, ultimate, min Linear dimensional change, max	D 573	80 lbf (356 N) 200% ±1%	220 lbf (979 N) 205% -0.7%	---	---
	D 751 (Grab Method)				
	D 412 (Die C)				
	D 1204				
Water absorption, max., mass %	D 471	+8%, -2 ^a %	+1.8 ^a %	+2.94 ^a %	+2.94 ^a %
Weather resistance: visual inspection	G 151 / D 518	No Cracks or Crazing	Pass	Pass	Pass
Air permeance (material)	E 2178**	<0.004 (0.02)	Pass	Pass	Pass

*Specimens to be prepared from coating rubber compound, vulcanized in a similar method to the reinforced products.

**1. The ASTM E 2178 values listed above are for the air permeance of the RubberGard EPDM Membrane component only.

2. When system design includes an air barrier, please consult your Firestone Technical Services Advisor for additional roof system securement enhancements.

3. Consult the Designer / Architect, Code Agency or Authority having Jurisdiction (AHJ) for requirements regarding the selection and use of an appropriate air barrier material, and its installation into the building envelope.

Please contact Firestone Technical Services Department at 1-800-428-4511 for further information.

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