

Technical Information Sheet

Image Coming Soon

RubberGard™ MAX (Reinforced) FR (Fire Retardant) EPDM Membrane

Item Description	Item Number
45 mil Roll	W57SF41010
60 mil Roll	W57SF61010

Description

RubberGard MAX FR EPDM is an internally reinforced, cured single-ply roofing membrane that features 9 x 9, 1,000 denier polyester weft inserted scrim reinforcement for increased puncture resistance. Designed with fire retardants, RubberGard MAX FR Membrane can meet qualification for unlimited UL Class A slope, depending on the roofing assembly.

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)			0.42 lb/ft ² (2.1 kg/m ²)

Product Preparation

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 mm) wide shall be properly filled with an acceptable fill material.

Method of Application

RubberGard MAX FR 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



Typical Properties (Meets or exceeds ASTM D4637, Type II scrim-reinforced EPDM Single-Ply roofing membranes)			
Physical Test	ASTM Min. Value	Typical Performance	
		45 mil	60 mil
Thickness (D412)	1.143 mm +0.178 mm/-0.127 mm (0.045" +0.007"/-0.005")	1.168 mm (0.046")	---
	1.52 mm +0.229 mm/-0.152 mm (0.060" +0.009"/-0.006")	---	1.473 mm (0.058")
EPDM Coating over Scrim (D7635)	0.38 mm (0.015")	0.559 mm (0.022")	0.762 mm (0.030")
Breaking Strength (D751, Grab Method)	400 N (90 lbf)	969.7 N (218 lbf)	880.7 N (198 lbf)
Dynamic Puncture Resistance @ 10 J (D5635)	Pass	Pass	Pass
Static Puncture Resistance @ 25 kg (D5602)	Pass	Pass	Pass
Elongation, Ultimate, min.: % (D412, Die C)	250% Minimum (EPDM only; no scrim)	577%	Pass
Elongation @ fabric break (ultimate) (D751, Grab Method)	15% MD	26.7% MD	28.0% MD
	15% CD	35.2% CD	30.2% CD
Tear Strength (D751, B-Tongue Tear)	45 N (10 lbf) Minimum	516.0 N (116 lbf)	516.0 N (116 lbf)
Brittleness Point (D2137)	-45 °C (-49 °F) Maximum	Pass	Pass
Ozone Resistance, no cracks (D1149)	Pass	Pass	Pass
Breaking Strength after Heat Aging*	356 N (80 lbf)	1072.0 N (241 lbf)	Pass
Elongation, Ultimate after Heat Aging*	200% Minimum (EPDM only; no scrim)	517 %	Pass
Linear Dimensional Change after Heat Aging*	±1%	-0.8%	Pass
Water Absorption by Mass	+8%/-2% (EPDM only; no scrim)	+1.0%	Pass
Factory Seam Strength (D816, Method B)	8.8 kN/m (50 lbf/in) or sheet failure	N/A (no factory seams)	N/A (no factory seams)
Visual Inspection after Xenon-Arc Exposure**	Pass	Pass	Pass
* Heat age EPDM membrane for: 166 ± 1.66 hours at 240 ± 4°F (116 ± 2°C), followed by specified physical testing.			
** Weather Resistance shall be Practices G151 and G155 Xenon-Arc as follows:			
<u>Filter Type:</u>	Daylight		
<u>Irradiance:</u>	0.35 to 0.70 W/(m ² ·nm) @ 340 nm [42 to 84 W/(m ² ·nm) @ 300 to 400 nm]		
<u>Cycle:</u>	690 minutes ± 15 minutes light, 30 minutes light plus water spray		
<u>Un-insulated Black Panel Temp:</u>	176° ± 4°F (80° ± 2°C)		
<u>Relative Humidity:</u>	50% ± 5%		
<u>Spray Water:</u>	De-ionized		
<u>Specimen Rotation:</u>	Every 315 KJ/(m ² ·nm) @ 340 nm [37.8 MJ/(m ² ·nm) @ 300 to 400 nm]		
<u>Exposure:</u>	10,080 KJ/(m ² ·nm) @ 340 nm [1209.6 MJ/(m ² ·nm) @ 300 to 400 nm]		
For use of the product as a component in an air barrier assembly, please consult your Regional Technical Coordinator, Code Agency, or Authority having Jurisdiction (AHJ) for the acceptable air barrier assembly details.			

Please contact Holcim Technical Services at 800-428-4511 for further information.

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