

TECHNICAL INFORMATION SHEET

RubberGard™ Max FR (Fire Retardant) EPDM Membrane

Item Description

45-mil 10' (3 m) X 100' (30.5 m)
60-mil 10' X 100' (3 m) X 100' (30.5 m)

Item Number

W57SF41010
W57SF61010



Product Information

Description:

Firestone 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, Firestone RubberGard MAX FR Membrane can meet qualification for unlimited UL Class A slope, depending on the roofing assembly.

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 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.
- 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.
- Isolate waste products, such as petroleum products, greases, oils (mineral and vegetable) and animal fats from the RubberGard membrane.

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.



Packaging:

.045" MAX FR : 10' (3 m) x 100' (30.5 m) - 0.32 lb/sf (1.5 kg/m²)
.060" MAX FR: 10' (3 m) x 100' (30.5 m) - 0.42 lb/sf (2.1 kg/m²)

NOTE: Available sizes vary by product. Contact Firestone Customer Service for availability and packaging information.

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Typical Properties

Property	ASTM Standard	Performance Minimum	Typical Performance 45 mil	Typical Performance 60 mil
Thickness, min, sheet – overall	D 751	0.040" (1.02 mm)	0.043" (1.09 mm)	---
		0.054" (1.37 mm)	---	0.054" (1.37 mm)
		0.068" (1.73 mm)	---	---
Coating over scrim	D 751	0.015" (0.38 mm)	0.015" (0.38 mm)	0.022" (0.56 mm)
Breaking strength, min.	D 751 (Grab Method)	90 lbf (400 N)	180 lbf (800 N)	230 lbf (1023 N)
Dynamic puncture resistance	D 5635 / D5635 M	10 J min @ 73.4 ± 4 °F low slop	Pass	Pass
Static puncture resistance	D 5602 / D 5602 M	44.1 lbf (20 kg)	Pass	Pass
Elongation, ultimate, min.*	D 412 (Die C)	250%	400%	---
Elongation at fabric break, ultimate, min	D 751	15%	26%	29%
Machine direction	D 751	15%	26%	29%
Tearing strength, min.	D 751 (B-Tongue Tear)	10 lbf (45 N)	60 lbf (267 N)	81 lbf (360 N)
Brittleness point, max.	D 2137	-49 °F (-45 °C)	Pass	Pass
Ozone resistance, no cracks	D 1149	Pass	Pass	Pass
Heat aging:	D 573			
Breaking strength, min.	D 751 (Grab Method)	80 lbf (356 N)	220 lbf (979 N)	---
Elongation, ultimate, min	D 412 (Die C)	200%	205%	
Linear dimensional change, max	D 1204	±1%	-0.7%	
Water absorption, max., mass %	D 471	+8%, -2 ^a %	+1.8 ^a %	+2.94 ^a %
Weather resistance: visual inspection	G 151 / D 518	No Cracks or Crazing	Pass	Pass
Air permeance (material)	E 2178**	<0.004 (0.02)	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.

This sheet is meant to highlight Firestone products and specifications and is subject to change without notice. Firestone takes responsibility for furnishing quality materials which meet published Firestone product specifications or other technical documents, subject to normal roof manufacturing tolerances. Neither Firestone nor its representatives practice architecture. Firestone offers no opinion on and expressly disclaims any responsibility for the soundness of any structure. Firestone accepts no liability for structural failure or resultant damages. Consult a competent structural engineer prior to installation if the structural soundness or structural ability to properly support a planned installation is in question. No Firestone representative is authorized to vary this disclaimer.