

# TECHNICAL INFORMATION SHEET

## Low Slope Fire Retardant (LSFR) RubberGard™ EPDM Membrane

**Item Description**  
1 Roll

**Item Number**  
Various



### Product Information

#### Description:

Firestone LSFR RubberGard EPDM is a non-reinforced, cured, single-ply roofing membrane that can be used in ballasted, fully adhered and mechanically attached systems.

#### Preparation of Substrate:

- 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.
- All roughened surfaces that can damage the membrane shall be repaired as specified to offer a smooth substrate.
- All surface voids greater than ¼" (6.3 mm) wide shall be properly filled with an acceptable fill material.

### Product Packaging

Membrane Thickness	Width	Length	Weight
0.045" (1.14 mm)	7.5' (2.3 m)	100' (30.5 m)	0.29 lb/ft <sup>2</sup> (1.4 kg/m <sup>2</sup> )
	10' (3.05 m)	100' (30.5 m)	
	16.7' (5.09 m)	100' (30.5 m)	
	20' (6.10 m)	100' (30.5 m)	
	30' (9.14 m)	100' (30.5 m)	
	40' (12.19 m)	100' (30.5 m)	
0.060" (1.52 mm)	7.5' (2.3 m)	100' (30.5 m)	0.39 lb/ft <sup>2</sup> (1.5 kg/m <sup>2</sup> )
	10' (3.05 m)	100' (30.5 m)	
	16.7' (5.09 m)	100' (30.5 m)	
	20' (6.10 m)	100' (30.5 m)	
	30' (9.14 m)	100' (30.5 m)	
	40' (12.19 m)	100' (30.5 m)	

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

#### Method of Application:

RubberGard Non-Reinforced LSFR 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:

- 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.
- Refer to Safety Data Sheets (SDS) for safety information.

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### 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 13266-L

### Typical Properties (Meets or exceeds ASTM D 4637, Type I non-reinforced EPDM Single-Ply roofing membranes)

Property	ASTM Standard	Performance Minimum	Typ. Values 45 mil	Typ. Values 60 mil
Thickness, minimum, Sheet-overall	D 412	45 mil - 0.040" (1.016 mm) 60 mil - 0.050" (1.372 mm)	0.0405 (1.092)	0.059 (1.499)
Tensile Strength, min.	D 412 (Die C)	1305 psi (9.0 MPa)	1435 (9.9)	1450 (10.0)
Dynamic Puncture Resistance	D 5635 / D 5635M	5 J min @ 73.4 ± 4 °Flow slop	pass	pass
Static Puncture Resistance	D 5602 / D 5602M	44.1 lbf (20 kg)	pass	pass
Elongation, Ultimate, min.	D 412 (Die C)	300%	430	475
Tensile set, max.	D 412, Method A (Die C)	10%	2.5	2.0
Tear Resistance, min.	D 624 (Die C)	150 lbf/in (26.27 kN/m)	190 (33.2)	195 (34.1)
Brittleness point, max.	D 2137	-49 °F (-45 °C)	-49 (-45)	-49 (-45)
Ozone resistance, no cracks	D 1149	pass	pass	pass
Heat Aging:	D 573			
Tensile Strength, min.	D 412 (Die C)	1205 (8.3)	1425 (9.8)	1490 (10.3)
Elongation, ultimate, min.	D 412	200%	240	320
Tear resistance, min.	D 624	125 lbf/in (21.9 kN/m)	180 (31.5)	179 (31.3)
Linear dimensional change, max.	D 1204	±1.0%	-0.5	-0.3
Water absorption, max., mass	D 471	+8%, -2%	+1.8	+1.5
Factory Seam Strength, min.	D 816 Method B (modified)	50 lbf/in (8.8 kN/m) or Sheet Failure	Sheet Failure	Sheet Failure
Weather Resistance:				
Visual inspection	G 151 / D 518	No cracks or crazing	Pass	Pass
PRFSE, min.	G 151 / D 518	30	52	53
Elongation, ultimate, min.	G 155 / D 412 (Die C)	200	240	255
Air Permeance (Material)	E2178*	<0.004 (0.02)	pass	pass

\*1. The ASTM 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.*