

Low-Slope Fire Retardant (LS FR) RubberGard™ EPDM Membrane

TIS #103



Description:

Firestone FR 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:

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 1/4" (6.3 mm) wide shall be properly filled with an acceptable fill material.

Method of Application:

1. RubberGard Non-Reinforced 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:

- 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 Material Safety Data Sheets (MSDS) for safety information.

Packaging:	Widths ¹	Lengths	Weight
.045" LS-FR	7.5' (2.3 m)	100' (30.5 m)	0.31 lb/sf (1.5 kg/m ²)
	10' (3.05 m)	100' (30.5 m)	
	16.7' (5.09 m)	100' (30.5 m)	
	20' (6.1 m)	100' (30.5 m)	
	30' (9.14 m)	100' (30.5 m)	
	40' (12.19 m)	100' (30.5 m)	
.060" LS-FR	50' (15.24 m)	100' (30.5 m)	0.43 lb/sf (2.1 kg/m ²)
	7.5' (2.3 m)	100' (30.5 m)	
	10' (3.05 m)	100' (30.5 m)	
	16.7' (5.09 m)	100' (30.5 m)	
	20' (6.1 m)	100' (30.5 m)	
	30' (9.14 m)	100' (30.5 m)	
	40' (12.19 m)	100' (30.5 m)	
50' (15.24 m)	100' (30.5 m)		

¹Available sizes vary by product. Contact your Firestone Customer Service Representative for availability and packaging information.

TECHNICAL INFORMATION SHEET

Compliance:

Post Consumer Recycled Content: 0%

Pre Consumer Recycled Content: 0%

Manufacturing Location: Prescott, AR

CCMC 13266-L



Physical Properties:	ASTM Standard	Units	Performance Minimum	Typical Values 45 mil	Typical Values 60 mil
Thickness, minimum Sheet-overall	D 412	In. (mm)	0.0405 (1.016) 0.0504 (1.372)	0.0405 (1.092)	0.059 (1.499)
Tensile Strength, minimum	D 412 (Die C)	psi(MPa)	1305 (9.0)	1435 (9.9)	1454 (10.0)
Elongation, Ultimate, minimum	D 412 (Die C)	%	300	450	622
Tensile set, maximum	D 412, Method A (Die C)	%	10	5	2.18
Tear Resistance, minimum	D 624 (Die C)	Lbf/in (kN/m)	159 26.3	190 33.2	219 38.4
Brittleness point, maximum	D 2137	°F(°C)	-49(45)	-62(-52)	-49(-45)
Ozone resistance, no cracks	D 1149	-	-	Pass	Pass
Heat Aging:	D 573				
Tensile Strength, min.	D 412 (Die C)	psi(MPa)	1205(8.3)	1425(9.8)	1490(10.3)
Elongation, ultimate, min.	D 412	%	200	240	322
Tear resistance, min.	D 624	Lbf/in (kN/m)	125 21.9	180 31.5	179 31.3
Linear dimensional change, maximum	D 1204	%	±1.0	-0.5	-.32
Water absorption, max, mass %	D 471	%	+8,-2	+1.8	+1.51
Factory Seam Strength, minimum	D 816 Method B (Modified)	Lbf/in (kN/m)	50 (8.8) or Sheet Failure	Sheet Failure	Sheet Failure
Weather Resistance:					
Visual inspection	D 518	-	Pass	Pass	Pass
PRFSE, minimum	D 518	%	30	52	53
Elongation, ultimate, min	D 412 (Die C)	%	200	240	255

RubberGard LS-FR membrane meets or exceeds the minimum requirements set forth by ASTM D 4637 for Type I non-reinforced EPDM single-ply roofing membranes.

Please Contact your Firestone Technical Coordinator at 1-800-428-4511 for further information.

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