

TECHNICAL INFORMATION SHEET

RubberGard™ EcoWhite™ EPDM Membrane

Item Description
1 Roll

Item Number
Various

Product Information

Description:

Firestone RubberGard EcoWhite EPDM is a 0.060" (1.52 mm) non-reinforced, bi-laminate, white-on-black, cured single-ply roofing membrane that can be used in fully adhered Firestone Roofing 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 ¼" (6.3 mm) wide shall be properly filled with an acceptable fill material.

Product Packaging

<u>Product Thickness</u>	<u>Width</u>	<u>Length</u>	<u>Weight</u>
0.060" LSFR (1.52 mm)	10' (3.05 m)	50' (15.24 m)	0.43 lb/ft ² (2.1kg/m ²)
	10' (3.05 m)	100' (30.5 m)	
	16' 8" (5.1 m)	100' (30.5 m)	
	20' (6.1 m)	100' (30.5 m)	
	25' (7.6 m)	100' (30.5 m)	
	30' (9.1 m)	100' (30.5 m)	

Method of Application:

RubberGard EcoWhite Non-Reinforced EPDM Membrane must be installed in accordance with current RubberGard EcoWhite EPDM 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 EPDM membrane.
- Refer to Safety Data Sheets (SDS) for safety information.

LEED® Information:

Post Consumer Recycled Content: 0%
 Post Industrial Recycled Content: 0%
 Manufacturing Location: Prescott, AR



CCMC 13266-L



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

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Typical Properties


Property	ASTM Standard	Units	Performance Minimum	Typ. Values – 60 mil
Thickness, min.: Sheet Overall	D 412	in/mm	0.054 (1.372)	0.059(1.499)
Tensile Strength, min.:	D 412 (Die C)	psi (MPa)	1305 (9.0)	1360 (9.4)
Elongation, Ultimate, min.:	D 412 (Die C)	%	300	468
Tensile Set, max.:	D 412 Method A (Die C)	%	10	2.18
Tear Resistance, min.:	D 624 (Die C)	lbf/in (kN/m)	159 (26.3)	234 (41.0)
Brittleness point, max.:	D 2137	°F (°C)	-49 (45)	-69 (-56)
Ozone resistance, no cracks:	D 1149	---	Pass	Pass
Heat Aging:	D 573			
Tensile Strength, min	D 412 (Die C)	psi (MPa)	1205(8.3)	1317 (9.1)
Elongation, ultimate, min	D 412 (Die C)	%	200	325
Tear resistance, min	D 624 (Die C)	lbf/in (kN/m)	125 (21.9)	240 (42.0)
Linear dim change, max.	D 1204	%	±1.0	-0.5
Water absorption, max, mass	D 471	%	+8, -2	+2.5
Factory Seam Strength, min.:	D 816 Method B(modified)	lbf/in (kN/m)	50 (8.8) or Sheet Failure	Sheet Failure
Weather Resistance:				
Visual inspection, 7X	D 4637	-	Pass	Pass
PRFSE, min	D 4637	%	30	51
Elongation, ultimate, min	D 412 (Die C)	%	200	277
Ultraviolet weather resistance (Xenon Arc Weathering)	G 155	---(hrs)	Pass (1000)	Pass (4000)
Air Permeance (Material):	E2178*	ft ³ /ft ² (L/(s·m ²))	<0.004 (0.02)	Pass

*The ASTM 2178 values listed are for the air permeance of the UltraPly TPO Membrane component only. For use of the product as a component in an air barrier assembly, please consult your Firestone Technical Advisor, Code Agency or Authority having Jurisdiction (AHJ) for the acceptable air barrier assembly details.

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.

**Values were obtained from independent testing by Atlas Material Testing DSET Laboratories

***SRI was calculated using the SRI calculator from the USGBC

		<u>Initial</u>	<u>Weathered</u>
	Solar Reflectance	0.80	0.72
	Thermal Emittance	0.84	0.86
	Rated Product ID Number	0027	
	Licensed Seller ID Number	0608	
Classification	Production Line		

Cool Roof Rating Council ratings are determined for a fixed set of conditions, and may not be appropriate for determining seasonal energy performance. The actual effect of solar reflectance and thermal emittance on building performance may vary.
 Manufacturer of product stipulates that these ratings were determined in accordance with the applicable Cool Roof Rating Council procedures.

Compliance:	Test Method	Result
Solar Reflectance**	ASTM E903	0.83
Thermal Emittance**	ASTM E408	0.92
Solar Reflectance Index (SRI)***	ASTM E1980	105

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.