

GENFLEX AFR EPDM Membrane

Item Description	Item Number
1 Roll	Various

Product Information

Description

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

General Application Information:

- 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.
- GenFlex AFR EPDM Membrane must be installed in accordance with current GenFlex 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.

Packaging Data			
Membrane Thickness	Width	Length	Weight
0.045" (1.14 mm)	7.5' (2.3 m)	100' (30.5 m)	0.29 lb/ft² (1.4 kg/m²)
	10' (3.05 m)		
	16.7' (5.09 m)		
	20' (6.10 m)		
	30' (9.14 m)		
	40' (12.19 m)		
	50' (15.24 m)		
0.060" (1.52 mm)	7.5' (2.3 m)	100' (30.5 m)	0.39 lb/ft² (1.9 kg/m²)
	10' (3.05 m)		
	16.7' (5.09 m)		
	20' (6.10 m)		
	30' (9.14 m)		
	40' (12.19 m)		
	50' (15.24 m)		
NOTE: Available sizes vary by product. Contact your GenFlex Customer Service Representative for availability and packaging information.			

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

## LEED® Information

Post-Consumer Recycled Content: 0%

Post Industrial Recycled Content: 0%

Manufacturing Locations: Prescott, AR

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



CCMC 13265-L



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## Typical Properties

Physical Test	ASTM Minimum Value	Typical Value 45 mil	Typical Value 60 mil
Thickness (D412)	<b>45 mil:</b> 1.143 mm +0.178 mm/-0.127 mm (0.045" +0.007"/-0.005")	1.092 mm (0.043")	1.37 mm (0.054")
	<b>60 mil:</b> 1.52 mm +0.229 mm/-0.152 mm (0.060" +0.009"/-0.006")		
Tensile Strength (D412, Die C)	9.0 MPa (1305 psi) Minimum	9.03 MPa (1309 psi)	9.09 MPa (1319 psi)
Dynamic Puncture Resistance @ 5J (D5635)	Pass	Pass	Pass
Static Puncture Resistance @ 20 kg (D5602)	Pass	Pass	Pass
Elongation, Ultimate % (D412, Die C)	300% Minimum	445%	480%
Tensile set (D412, Method A, Die C)	10% Maximum	0%	Pass
Tear Resistance (D624, Die C)	26.27 kN/m (150 lbf/in) Minimum	29.60 kN/m (169 lbf/in)	29.25 kN/m (167 lbf/in)
Brittleness point (D2137)	-45 °C (-49 °F) Maximum	-45 °C (-49 °F)	Pass
Ozone resistance, no cracks D1149)	Pass	Pass	Pass
Tensile Strength after Heat Aging*	21.9 kN/m 125 lbf/in Minimum	9.48 MPa (1365 psi)	Pass
Elongation, Ultimate after Heat Aging*	200% Minimum	306%	Pass
Tear Resistance after Heat Aging*	21.9 kN/m 125 lbf/in Minimum	33.1 kN/m (189 lbf/in)	Pass
Linear Dimensional Change after Heat Aging*	± 1%	-1%	Pass
Water Absorption by Mass (D471)	+8%/-2%	+1%	Pass
Visual Inspection after Xenon-Arc Weather Resistance Exposure**	Pass	Pass	Pass
PRFSE, Minimum % after Xenon-Arc Weather Resistance Exposure**	30% Minimum	75%	Pass
Elongation, Ultimate, Minimum % after Xenon-Arc Weather Resistance**	200% Minimum	340%	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 <sup>2</sup> ·nm) @ 340 nm [42 to 84 W/(m <sup>2</sup> ·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 <sup>2</sup> ·nm) @ 340 nm [37.8 MJ/(m <sup>2</sup> ·nm) @ 300 to 400 nm]
<u>Exposure:</u>	10,080 KJ/(m <sup>2</sup> ·nm) @ 340 nm [1209.6 MJ/(m <sup>2</sup> ·nm) @ 300 to 400 nm]

1. When system design includes an air barrier, please consult your GenFlex Technical Services Advisor for additional roof system securement enhancements.
2. 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 GenFlex Technical Department at 1-800-443-4272 option 1, for further information.

*This sheet is meant to highlight GenFlex products and specifications and is subject to change without notice. GenFlex takes responsibility for furnishing quality materials which meet published GenFlex product specifications. Neither GenFlex nor its representatives practice architecture. GenFlex offers no opinion on and expressly disclaims any responsibility for the soundness of any structure. GenFlex 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 GenFlex representative is authorized to vary this disclaimer.*