

FLEXWHITE™ EPDM MEMBRANE

Item Description

1 Roll

Item Number

Various

Product Information

Description

GenFlex FlexWhite EPDM Membrane is a 0.060" (1.52 mm) or 0.090" (2.29 mm) non-reinforced, bi-laminate, white-on-black, cured single-ply roofing membrane that can be used in fully adhered GenFlex Roofing Systems.

Typical Properties			
Product Thickness	Width	Length	Weight
0.060" (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)	
0.090" (2.29 mm)	10' (3.05 m)	50' (15.24 m)	0.61 lb/ft ² (3.0kg/m ²)
		100' (30.5 m)	

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

GenFlex FlexWhite EPDM Membrane must be installed in accordance with current GenFlex specifications, details and workmanship requirements.

Precautionary Data

- 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 FlexWhite 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

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



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.

Typical Properties (ASTM D4637)

Physical Test	ASTM Minimum Value		Typical Value	
	60 mil	90 mil	60 mil	90 mil
Thickness (D412)	1.52 mm +0.229 mm/-0.152 mm (0.060" +0.009"/-0.006")	2.286 mm +0.356 mm/-0.229 mm (0.090" +0.014"/-0.009")	1.549 mm (0.061")	2.235 mm (0.088")
Tensile Strength (D412, Die C)	9.0 MPa (1305 psi) Minimum	9.0 MPa (1305 psi) Minimum	9.2 MPa (1336 psi)	11.0 Mpa (1597 psi)
Dynamic Puncture Resistance @ 5J (D5635)	Pass	Pass	Pass	Pass
Static Puncture Resistance @ 20 kg [44.1 lbf] (D5602)	Pass	Pass	Pass	Pass
Elongation, Ultimate % (D412, Die C)	300% Minimum	300% Minimum	420%	495%
Tensile Set (D412, Method A, Die C, 50% elongation)	10% Maximum	10% Maximum	0%	Pass
Tear Resistance (D624, Die C)	26.27 kN/m (150 lbf/in) Minimum	26.27 kN/m (150 lbf/in) Minimum	32.75 kN/m (187 lbf/in)	33.97 kN/m (194 lbf/in)
Brittleness Point (D2137)	-45 °C (-49 °F) Maximum	-45 °C (-49 °F) Maximum	Pass	Pass
Ozone Resistance, no cracks (D1149)	Pass	Pass	Pass	Pass
Tensile Strength after Heat Aging*	8.3 MPa (1205 psi) Minimum	8.3 MPa (1205 psi) Minimum	10.0 MPa (1445 psi)	Pass
Elongation, Ultimate after Heat Aging*	200% Minimum	200% Minimum	380%	Pass
Tear Resistance after Heat Aging*	21.9 kN/m 125 lbf/in Minimum	200% Minimum	32.9 kN/m (188 lbf/in)	Pass
Linear Dimensional Change after Heat Aging*	± 1%	21.9 kN/m 125 lbf/in Minimum	-1.00%	Pass
Water Absorption by Mass	+8%/-2%	+8%/-2%	+2.00%	Pass
Visual Inspection after Xenon-Arc Weather Resistance**	Pass	Pass	Pass	Pass
PRFSE, minimum % after Xenon-Arc Weather Resistance**	30% Minimum	30% Minimum	31%	Pass
Elongation, ultimate, minimum % after Xenon-Arc Weather Resistance**	200% Minimum	200% Minimum	210%	Pass

* Heat age FlexWhite 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:
Filter Type: Daylight
Irradiance: 0.35 to 0.70 W/(m²·nm) @ 340 nm [42 to 84 W/(m²·nm) @ 300 to 400 nm]
Cycle: 690 minutes ± 15 minutes light, 30 minutes light plus water spray
Un-insulated Black Panel Temp: 176° ± 4°F (80° ± 2°C)
Relative Humidity: 50% ± 5%
Spray Water: De-ionized
Specimen Rotation: Every 315 KJ/(m²·nm) @ 340 nm [37.8 MJ/(m²·nm) @ 300 to 400 nm]
Exposure: 2520 KJ/(m²·nm) @ 340 nm [302.4 MJ/(m²·nm) @ 300 to 400 nm]

For use of the product as a component in an air barrier assembly, please consult your GenFlex Technical Advisor, Code Agency or Authority having Jurisdiction (AHJ) for the acceptable air barrier assembly details.

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

		<u>Initial</u>	<u>CRRC Rapid Rating</u>
	Solar Reflectance	0.77	0.65
	Thermal Emittance	0.86	0.87
	SRI	95	78
	Rated Product ID Number	0065	
Licensed Seller ID Number	0608		
Classification	Production Line		
<p>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.</p>			

<u>Compliance:</u>	<u>Test Method</u>	<u>Result</u>
Solar Reflectance**	ASTM E903	0.77
Thermal Emittance**	ASTM E408	0.86
Solar Reflectance Index (SRI)***	ASTM E1980	95

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

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

Please contact GenFlex Technical Services at 1-800-443-4272 option 1, for further information.

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