

GENFLEX 90-MIL AFR EPDM MEMBRANE

Item Description

1 Roll

Item Number

W590010179

Product Information

Description

GenFlex 90-mil AFR EPDM Membrane is a synthetic rubber membrane designed for long-term waterproofing performance when used in a fully adhered roof system application. GenFlex 90-mil AFR EPDM Membrane offers 90 mils of unobstructed waterproofing, unlike membranes that contain a reinforcing fabric that reduces the overall waterproofing layer. GenFlex 90-mil AFR EPDM Membrane is a Low Slope Fire Retardant (LSFR) compound.

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.

1. All roughened surfaces that can damage the membrane shall be repaired as specified to offer a smooth substrate.
2. 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
0.90" (2.29 mm)	10' (3.05 m)	100' (30.5 m)	0.58 lb/ft ² (2.8 kg/m ²)

NOTE: Packaged 2 panels per roll

Method of Application

GenFlex 90-mil 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.

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 GenFlex 90-mil AFR 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

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



CCMC 13266-L

Typical Properties (ASTM D 4637)

Physical Test	ASTM Minimum Value	Typical Value
Thickness (D412)	2.286 mm +0.343 mm/-0.229 mm (.090" +0.0135"/-0.009")	2.286 (0.090")
Tensile Strength (D412, Die C)	9.0 MPa (1305 psi) Minimum	9.5 Mpa (1371 psi)
Dynamic Puncture Resistance @ 5J (D5635)	Pass	Pass
Static Puncture Resistance @ 20 kg (44.1 lbf) (D5602)	Pass	Pass
Elongation, Ultimate % (D412, Die C)	300% Minimum	495%
Tensile Set (D412, Method A, Die C, 50% elongation)	10% Maximum	Pass
Tear Resistance D624, Die C)	26.27 kN/m (150 lbf/in) Minimum	36.25 kN/m (207 lbf/in)
Brittleness Point (D2137)	-45 °C (-49 °F) Maximum	Pass
Ozone Resistance, no cracks (D1149)	Pass	Pass
Tensile Strength after Heat Aging*	8.3 MPa (1205 psi) Minimum	Pass
Elongation, Ultimate after Heat Aging*	200% Minimum	Pass
Tear Resistance after Heat Aging*	21.9 kN/m 125 lbf/in Minimum	Pass
Linear Dimensional Change after Heat Aging*	± 1%	Pass
Water Absorption by Mass	+8%/-2%	Pass
Visual Inspection after Xenon-Arc Weather Resistance**	Pass	Pass
PRFSE, minimum % after Xenon-Arc Weather Resistance**	30% Minimum	Pass
Elongation, ultimate, minimum % after Xenon-Arc Weather Resistance**	200% Minimum	Pass

* Heat age GenFlex 90-mil AFR 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 ² ·nm) @ 340 nm [42 to 84 W/(m ² ·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 ² ·nm) @ 340 nm [37.8 MJ/(m ² ·nm) @ 300 to 400 nm]
<u>Exposure:</u>	10,080 KJ/(m ² ·nm) @ 340 nm (1209.6 MJ/m ² at 300 to 400 nm)

NOTE: The ASTM 2178 values listed are for the air permeance of the GenFlex 90-mil AFR EPDM Membrane component only. For use of the product as a component in an air barrier assembly, please consult your GenFlex Building Systems Advisor (BSA), Code Agency or Authority having Jurisdiction (AHJ) for the acceptable air barrier assembly details.

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

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