

Product Data Sheet

GenFlex 90-Mil AFR EPDM Membrane

Item Description	Item Number
1 roll: 0.90" (2.29 mm) 10' x 100' (3.05 m x 30.5 m) 0.58 lb/ft ² (2.8 kg/m ²)	W590010179
<i>NOTE: 2 panels per roll</i>	

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.

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 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 Min Value	Typical 45 mil Value	Typical 60 mil Value
Thickness (D412)	45 mil: 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")
	60 mil: 1.52 mm+0.229 mm/-0.127 mm (0.060"+0.009"/-0.006")		
Tensile Strength (D412, Die C)	9.0 MPa (1305 psi) min	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% min	445%	480%
Tensile set (D412, Method A, Die C)	10% max	0%	pass
Tear Resistance (D624, Die C)	26.27 kN/m/125 lbf/in min	9.48 MPa (1365 psi)	pass
Brittleness point (D2137)	-45 °C (-49 °F) max	-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 min	9.48 MPa (1365 psi)	pass
Elongation, Ultimate after Heat Aging*	200% min	306%	pass
Tear Resistance after Heat Aging*	21.9 kN/m 125 lbf/in min	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, min % after Xenon-Arc Weather Resistance Exposure**	30% min	75%	pass
Elongation, Ultimate, min % after Xenon-Arc Weather Resistance**	200% min	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:

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: 10,080 KJ/(m²·nm) @ 340 nm [1209.6 MJ/(m²·nm) @ 300 to 400 nm]

- When system design includes an air barrier, please consult your GenFlex Technical Services Advisor for additional roof system securement enhancements.
- 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 Amrize Technical Services at 800-428-4511 for further information.

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