

Product Data Sheet

GENFLEX EZ FLEECE BACKED TPO MEMBRANE



Description

GenFlex EZ Fleeceback TPO Membrane is a flexible Thermoplastic Polyolefin (TPO) roofing membrane that is produced with polyester weft-inserted reinforcement and an 8 ounce polyester fleece backing. GenFlex EZ Fleeceback TPO Membrane meets or exceeds all requirements for ASTM D 6878 Specification. This heat weldable GenFlex EZ Fleeceback TPO Membrane is available in 45 mil (1.14 mm) and 60 mil (1.52 mm) thicknesses. This membrane is ideal for a variety of new or re-roofing applications.

Item Number:

45 mil W590MWF410

60 mil W590MWF610

Method of Application

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.
4. GenFlex EZ Fleeceback TPO Membrane may be fully adhered using GenFlex FB Bonding Adhesive, or hot asphalt. GenFlex EZ Fleeceback TPO Membrane can also be mechanically attached.

Product Data

	45 MIL	60 MIL
Membrane Thickness	0.045" (1.14 mm)	0.060" (1.52 mm)
Membrane Weight	0.27 lb/ft ² (1.3 kg/m ²)	0.32 lb/ft ² (1.6 kg/m ²)
Available Sizes	10'x100' (3.0x30.5 m)	10'x100' (3.0x30.5 m)
Available Colors	White	White

LEED® Information

Recycled Content

Post Consumer	0%
Pre Consumer	15%
Manufacturing Location	Muscle Shoals, AL

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.

Precautionary Data

Review Material Safety Data Sheets (MSDS) for safety information.

Exercise caution when lifting, moving, transporting, storing or handling membrane rolls to avoid sources of punctures and possible physical damage.

Contact your Roof Systems Advisor at 1-800-428-4511 for specific recommendations regarding chemical or waste product compatibility with GenFlex EZ Fleeceback TPO Membrane.



ICC-ES
ESR-2831

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Physical Properties

Meets or exceeds all requirements for ASTM D 6878

PROPERTY	ASTM STANDARD	PERFORMANCE MINIMUM
Overall Thickness:	D 751	0.039" (1.0 mm)
Coating Over Scrim:	D 7635	0.015" (0.38 mm)
Breaking Strength:	D 751, Grab Method	220 lbf (979 N)
Elongation of Reinforcement Break:	D 751, Grab Method	15%
Tearing Strength:	D 751	55 lbf (245 N)
Brittleness Point:	D 2137	-40 °F (-40 °C)
Ozone Resistance, No Cracks:	D 1149	Pass (No Cracks)

PROPERTY	TYPICAL PERFORMANCE XR 100: 45 MIL	TYPICAL PERFORMANCE XR 115: 60 MIL
Overall Thickness:	0.045" (1.14 mm) ± 10%	0.060" (1.52 mm) ± 10%
Coating Over Scrim:	0.017" (0.43 mm)	0.021" (0.53 mm)
Breaking Strength:	340 lbf (1,512 N)	390 lbf (1,735 N)
Elongation of Reinforcement Break:	25%	25%
Tearing Strength:	120 lbf (534 N)	120 lbf (534 N)
Brittleness Point:	Pass	Pass
Ozone Resistance, No Cracks:	Pass	Pass

Properties After Heat Aging (Retained Values) (ASTM D 573 670 h at 240° F (116° C))

PROPERTY	ASTM STANDARD	PERFORMANCE MINIMUM
Breaking Strength:	D 751, Grab Method	90% Minimum
Elongation at Break:	D 751, Grab Method	90% minimum
Tearing Strength:	D 751	60% minimum
Weight of Change:		± 1% maximum
Linear Dimension Change:	D 1204, 6 h at 158 °F (70 °C)	± 1% maximum
Water Absorption:	D 471	± 3% maximum
Weather Resistance, 80 °C Black Panel, no cracking, crazing when wrapped around a 3" mandrel and inspected at 7X magnification:	G 155	10,800 kJ/m ² Minimum
Puncture Resistance:	FTM 101C, Method 2031	_____
Dynamic Puncture Resistance MD:	D 5635	_____
Dynamic Puncture Resistance CD:	D 5635	_____
Static Puncture Resistance:	D 5602	_____

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PROPERTY	TYPICAL PERFORMANCE XR 100: 45 MIL	TYPICAL PERFORMANCE XR 115: 60 MIL
Breaking Strength:	> 90%	> 90%
Elongation at Break:	> 90%	> 90%
Tearing Strength:	> 60%	> 60%
Weight of Change:	< 1%	< 1%
Linear Dimension Change:	< 1%	< 1%
Water Absorption:	< 3%	< 3%
Weather Resistance, 80 °C Black Panel, no cracking, crazing when wrapped around a 3" mandrel and inspected at 7X magnification:	> 20,160 kJ/m ²	> 20,160 kJ/m ²
Puncture Resistance:	_____	_____
Dynamic Puncture Resistance MD:	Pass (60 J)	Pass (65 J)
Dynamic Puncture Resistance CD:	Pass (55 J)	Pass (65 J)
Static Puncture Resistance:	Pass (25 kg)	Pass (25 kg)

Radiative Properties

COOL ROOF RATING COUNCIL: INITIAL/ 3YR	WHITE
Solar Reflectance	0.79 / 0.69
Thermal Emittance	0.78 / 0.81
Solar Reflectance Index (SRI)	96 / 82
Rated Product ID	0016
Licensed Manufacturer ID	0608
Classification	Production Line

ENERGY STAR®: INITIAL / 3 YR	WHITE
Solar Reflectance	0.79 / 0.78
Thermal Emittance	0.85

*White membrane sample cleaned prior to age test.

LEED®	WHITE
Solar Reflectance – ASTM E 903	0.81
Thermal Emittance – ASTM E 408	0.95
Solar Reflectance Index (SRI) – ASTM E 1980	102



ENERGY STAR is only valid in the United States