

Product Data Sheet



GenFlex EZ Fleece Backed TPO Membrane

Item Description	Thickness	Color	Item Number
10' x 100' (3.05 m x 30.48 m)	45	White	W590MWFM410
	60	White	W590MWFM610
	60	Gray	W590MWFGM610
	60	Tan HR	W59GFLTFM610
<i>Meets or exceeds ASTM D 6878</i>			

Description

GenFlex Fleece Backed 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 Fleece Backed TPO Membrane meets or exceeds all requirements for ASTM D 6878 Specification. This heat weldable GenFlex Fleece Backed 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.

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 rough surfaces that can damage the membrane shall be repaired as specified to offer a smooth substrate.
3. All surface voids greater than ¼" (6.3 mm) wide shall be properly filled with an acceptable fill material.
4. GenFlex Fleece Backed TPO Membrane may be adhered using beads of GenFlex QuickDual™ adhesive or full application of hot asphalt or Quick Jet adhesive. GenFlex Fleece Backed TPO Membrane can also be mechanically attached. GenFlex Fleece Backed TPO Membrane may also be adhered using SEBS Mopping Asphalt (TIS 811) to an approved substrate or modified bitumen sheet.

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

- Refer to Safety Data Sheets (SDS) for additional safety information.
- Exercise caution when lifting, moving, transporting, storing, or handling membrane rolls to avoid sources of punctures and possible physical damage.
- Contact a Regional Technical Coordinator at 1-800-443-4272 for specific recommendations regarding chemical or waste product compatibility with GenFlex EZ Fleece Backed TPO Membrane.

LEED® Information

Post-Consumer Recycled Content: 0%

Post Industrial Recycled Content: 15%

Manufacturing Location: Tuscumbia, AL

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



Typical Properties (Meets or exceeds ASTM D 6878 Specification)

Properties	Test Method	Performance Minimum	Typical Performance	
			45 mil	60 mil
Overall Thickness (Thickness Above Fleece)	D 751	0.039" (1.0 mm)	0.045" (1.14 mm) ± 10%	0.060" (1.52 mm) ± 10%
Coating Over Scrim	D 7635	0.015" (0.38 mm)	0.017" (0.43 mm)	0.021" (0.53 mm)
Breaking Strength	D 751, Grab Method	220 lbf (979 N)	340 lbf (1,512 N)	390 lbf (1,735 N)
Elongation of Reinforcement Break	D 751, Grab Method	15%	25%	25%
Tearing Strength	D 751	55 lbf (245 N)	120 lbf (534 N)	120 lbf (534 N)
Brittleness Point	D 2137	-40 °F (-40 °C)	Pass	Pass
Ozone Resistance, No Cracks	D 1149	Pass (No Cracks)	Pass	Pass
Properties After Heat Aging (Retained Values) ASTM D 573-5376 h (224 days or 32 weeks) at 240 °F (116 °C)				
Breaking Strength	D 751, Grab Method	90% Minimum	> 90%	> 90%
Elongation at Break	D 751, Grab Method	90% minimum	> 90%	> 90%
Tearing Strength	D 751	60% minimum	> 60%	> 60%
Weight of Change	---	± 1% maximum	< 1%	< 1%
Linear Dimension Change	D 1204, 6 h at 158 °F (70 °C)	± 1% maximum	< 1%	< 1%
Water Absorption	D 471	± 3% Maximum	< 3%	< 3%
Weather Resistance*	G 155	10,800 kJ/m ² Minimum	> 60,000 kJ/m ²	> 60,000 kJ/m ²
*176 °F (80 °C) Black Panel, no cracking, crazing when wrapped around a 3" (76.2 mm) mandrel and inspected at 7X magnification				
Puncture Resistance	FTM 101C, Method 2031	---	---	---
Dynamic Puncture Resistance MD	D 5635	---	Pass (60 J)	Pass (65 J)

Typical Properties (Continued)

Dynamic Puncture Resistance CD	D 5635	---	Pass (55 J)	Pass (65 J)
Static Puncture Resistance	D 5602	---	Pass (25 kg)	Pass (25 kg)
Air Permeance (Material)	E 2178*	<0.004 ft ³ /ft ² (0.02 L/(s·m ²))	Pass	Pass

NOTE:

1. The ASTM 2178 values listed above are for the air permeance of the GenFlex EZ TPO Membrane component only.
2. When system design includes an air barrier, please consult a Regional Technical Coordinator for additional roof system securement enhancements.
3. 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.

Radiative Properties

Cool Roof Rating Council (CRRC): Values: Initial / 3 year	White	Light Tan (HR)	Gray
Solar Reflectance	0.80 / 0.70	0.73 / 0.66	0.34 / 0.34
Thermal Emittance	0.78 / 0.81	0.90 / 0.91	0.89 / 0.88
Solar Reflectance Index (SRI)	97 / 84	90 / 81	37 / 36
Rated Product ID	0008	0091	0032
Licensed Manufacturer ID	0608	0608	0608
Classification	Production Line	Production Line	Production Line
LEED®	White	Light Tan (HR)	Gray
Initial Solar Reflectance Index (SRI)	Pass (98)	---	---
3-year Aged Solar Reflectance Index (SRI)	Pass (83)	---	---

Product Sizes

Membrane Thickness: 45 mil – 0.045" (1.14 mm) Membrane Weight: 0.27 lb/ft ² (1.3 kg/m ²)		Membrane Thickness: 60 mil – 0.060" (1.52 mm) Membrane Weight: 0.32 lb/ft ² (1.6 kg/m ²)	
Available Sizes	Available Colors	Available Sizes	Available Colors
10' x 100' (3.0 m x 30.5 m)	White, Tan, Gray	10' x 100' (3.0 m x 30.5 m)	White, Tan, Gray

Please contact Amrize Technical Services at 800-428-4511 for further information.

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