

Product Data Sheet



GenFlex EZ TPO Plus Membrane

Item Description	Item Number
1 Roll <i>Meets or exceeds ASTM D 6878</i>	See Table Below

Description

GenFlex EZ TPO Plus Membrane is a flexible, 0.080" (2.03 mm) thick, Thermoplastic Polyolefin (TPO) roofing membrane, reinforced with polyester, weft-inserted scrim. This heat weldable GenFlex EZ TPO Plus Membrane is available in 0.080" (2.0 mm) thickness and widths up to 12'4" (3.8 m). GenFlex EZ TPO Plus Membrane is available in white, tan and gray. This reflective membrane is suitable for a variety of low-slope 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" (6.4 mm) wide shall be properly filled with an acceptable fill material.
4. GenFlex EZ TPO Plus Membrane is installed as continuous roofing or waterproofing layer on the roof. Rolls are overlapped (side laps and end laps) prior to the heat welding of the seam areas.
5. Install GenFlex EZ TPO Plus Membrane Systems in accordance with current GenFlex EZ TPO Plus Membrane 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

- 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 TPO Plus Membrane.

LEED® Information

Post-Consumer Recycled Content: 0%
 Post Industrial Recycled Content: 15%
 Manufacturing Location: Wellford, SC or 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	ASTM Standard	Performance Minimum	Typical Performance 80 mil
Overall Thickness	D 751	0.039" (1.0 mm)	0.080" (2.03 mm) ± 10%
Coating over Scrim	D 7635	0.015" (0.381 mm)	0.033" (0.84 mm)
Breaking Strength	D 751, Grab Method	220 lbf (979 N)	460 lbf (2,046 N)
Elongation of Reinforcement Break	D 751, Grab Method	15%	25%
Tearing Strength	D 751	55 lbf (245 N)	120 lbf (534 N)
Brittleness Point	D 2137	-40 °F (-40 °C)	Pass
Ozone Resistance, No Cracks	D 1149	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%
Elongation at Break	D 751, Grab Method	90% Minimum	> 90%
Tearing Strength	D 751	60% Minimum	> 60%
Weight of Change	---	± 1% Maximum	< 1%
Linear Dimension Change	D 1204, 6 h at 158 °F (70 °C)	± 1% Maximum	< 1%
Water Absorption	D 471	± 3% Maximum	< 3%
Weather Resistance	G 155	> 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	---	450 lbf (2,002 N)
Dynamic Puncture Resistance MD	D 5635	---	Pass (60 J)
Dynamic Puncture Resistance CD	D 5635	---	Pass (60 J)
Static Puncture Resistance	D 5602	---	Pass (25 kg)
Air Permeance (Material)	E 2178	< 0.004 ft ³ /ft ² (L/(s·m ²))	Pass

NOTE:
 1. The ASTM 2178 values listed above are for the air permeance of the GenFlex EZ TPO Plus 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 Ratings Council (CRRC): Values: Initial / 3 Year	White	Light Tan (HR)	Gray
Solar Reflectance	0.79 / 0.69	0.73 / 0.66	0.34 / 0.34
Thermal Emittance	0.85 / 0.83	0.90 / 0.90**	0.89 / 0.88
Solar Reflectance Index (SRI)	98 / 83	90 / 91	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: 0.080" (2.03 mm)		Membrane Weight: 0.38 lb/ft ² (1.9 kg/m ²)	
Available Sizes	Available Colors		Item Number
5' x 100' (1.5 m x 30.5 m)	White		W59GFW1805
	Gray		W59GFG1805
	Tan HR		W59GFLT1805
6' 2" x 100' (1.9 m x 30.5 m)	White		W59GFW1806
8' x 100' (2.4 m x 30.5 m)	White		W59GFW1808
	Gray		W59GFG1808
	Tan HR		W59GFLT1808
10' x 100' (3.0 m x 30.5 m)	White		W59GFW1810
	Gray		W59GFG1810
	Tan HR		W59GFLT1810
12'-4" x 100' (3.8 m x 30.5 m)	White		W59GFWM1812

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

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