

GENFLEX™ EZ TPO MEMBRANE

Item Description

1 Roll

Item Number

Various



Product Information

Description

GenFlex EZ TPO is a flexible Thermoplastic Polyolefin (TPO) roofing membrane that is produced with polyester weft-inserted reinforcement. GenFlex EZ TPO membrane meets or exceeds all requirements for ASTM D 6878 Specification. This heat weldable TPO membrane is available in 45 mil (1.14 mm) and 60 mil (1.52 mm) thicknesses. This reflective membrane is suitable for a variety of low-slope applications.

Installation

- 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.
- All rough surfaces that can damage the membrane shall be repaired as specified to offer a smooth substrate.
- All surface voids greater than ¼" (6.3 mm) wide shall be properly filled with an acceptable fill material.
- GenFlex EZ TPO membrane is installed as continuous roofing or waterproofing layer on the roof. Rolls are overlapped (side laps and end laps) prior to heat welding of the seam areas.
- Install the GenFlex EZ TPO Roofing System in accordance with current GenFlex EZ TPO specifications, details and workmanship requirements.

Storage

- Store away from sources of puncture 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

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

*LEED® Information

Recycled Content

Post-Consumer: 0%
Pre-Consumer: 15%

Manufacturing Location: Wellford, SC
Tuscumbia, AL

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



ICC-ES
ESR-2831

CCMC 13348-R

Typical Properties – Meets or exceeds ASTM D 6878 Specification

Property	ASTM Standard	Performance Minimum	Typical Performance 45 mil	Typical Performance 60 mil
Overall Thickness	D 751	0.039" (1 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 D573-5376h (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, 176 °F (80 °C) Black Panel, no cracking, crazing when wrapped around a 3" (76.2 mm) mandrel and inspected at 7X magnification	G 155	10,800 kJ/m ² minimum	> 60,000 kJ/m ²	> 60,000 kJ/m ²
Puncture Resistance	FTM 101C, Method 2031	---	265 (1,180)	300 (1,300)
Dynamic Puncture Resistance MD	D 5635	---	pass (20 J)	pass (40 J)
Dynamic Puncture Resistance CD	D 5635	---	pass (35 J)	pass (50 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

- *1. The ASTM 2178 values listed above are for the air permeance of the UltraPly TPO Membrane component only.
- 2. When system design includes an air barrier, please consult your Firestone Technical Services Advisor 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.

Product Sizes			
Membrane Thickness: 0.045" (1.14 mm) Membrane Weight: 0.23 lb/ft ² (1.1 kg/m ²)		Membrane Thickness: 0.060" (1.52 mm) Membrane Weight: 0.31 lb/ft ² (1.5 kg/m ²)	
Available Sizes	Available Colors	Available Sizes	Available Colors
5' x 100' (1.5 x 30.5 m)	White, Tan, Gray	5' x 100' (1.5 x 30.5 m)	White, Tan, Gray
5' x 200' (1.5 x 61 m)	White	5' x 200' (1.5 x 61 m)	White
6'2" x 100' (1.9 x 30.5 m)	White, Tan, Gray	6'2" x 100' (1.9 x 30.5 m)	White, Tan, Gray
8' x 100' (2.4 x 30.5 m)	White, Tan, Gray	8' x 100' (2.4 x 30.5 m)	White, Tan, Gray
8' x 200' (2.4 x 61 m)	White	8' x 200' (2.4 x 61 m)	White
10' x 100' (3.0 x 30.5 m)	White, Tan, Gray	10' x 100' (3.0 x 30.5 m)	White, Tan, Gray
10' x 200' (3.0 x 61 m)	White	10' x 200' (3.0 x 61 m)	White
12'4" x 100' (3.8 x 30.5 m)	White, Tan, Gray	12'4" x 100' (3.8 x 30.5 m)	White, Tan, Gray
12'4" x 200' (3.8 x 61 m)	White	12'4" x 200' (3.8 x 61 m)	White

Radiative Properties				
Cool Roof Rating Council (CRRC): Initial / 3 Year	White	Tan	Light Tan* (HR)	Gray
Solar Reflectance	0.79 / 0.69	0.61 / 0.55	0.73 / 0.63*	0.34 / 0.34
Thermal Emittance	0.85 / 0.83	0.81 / 0.84	0.90 / 0.90*	0.89 / 0.88
Solar Reflectance Index (SRI)	98 / 83	71 / 63	90 / 77*	37 / 36
Rated Product ID	0008	0015	TBD	0032
Licensed Manufacturer ID	0608	0608	TBD	0608
Classification	Production Line	Production Line	Production Line	Production Line
Energy Star®: Initial / 3 Year	White			
Solar Reflectance	0.79 / 0.68*	---	---	---
Thermal Emittance	0.85 / 0.83			
* White membrane sample cleaned prior to age test.				
LEED®	White			
Initial Solar Reflectance Index (SRI)	Pass (98)	---	---	---
3 year Aged Solar Reflectance Index (SRI)	Pass (83)			

*Light Tan data determined by testing conducted by PRI Construction Materials Technologies LLC



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

This sheet is meant to highlight GenFlex products and specifications and is subject to change without notice. GenFlex takes responsibility for furnishing quality materials which meet published GenFlex product specifications. Neither GenFlex nor its representatives practice architecture. GenFlex offers no opinion on and expressly disclaims any responsibility for the soundness of any structure. GenFlex accepts no liability for structural failure or resultant damages. Consult a competent structural engineer prior to installation if the structural soundness or structural ability to properly support a planned installation is in question. No GenFlex representative is authorized to vary this disclaimer.