

GenFlex EZ Fleece Backed TPO Membrane

Item Description

White, 45 mil	10' x 100' (3.05 m x 30.48 m)
White, 60 mil	10' x 100' (3.05 m x 30.48 m)
Gray, 60 mil	10' x 100' (3.05 m x 30.48 m)
Light Tan, 60 mil	10' x 100' (3.05 m x 30.48 m)
Tan HR, 60 mil	10' x 100' (3.05 m x 30.48 m)

Item Number

W590MWFM410
W590MWFM610
W590MWFGM610
W590MWFLTM610
W59GFLTFM610

Product Information

Description

GenFlex Fleece Backed TPO membranes meet or exceed all of the requirements of ASTM D 6878 Thermoplastic Polyolefin Membranes. The membrane is internally reinforced with a weft inserted polyester scrim and externally with an 8 oz polyester fleece backing. GenFlex Fleece Backed TPO membrane can be fully adhered to a variety of approved substrates with GenFlex FB Bonding Adhesive LVOC.

Typical Properties		
PROPERTY	ASTM TEST METHOD	TYPICAL VALUES
Thickness	D 751	45 (1.14) ± 10% 60 (1.52) ± 10%
Membrane Weight		45 mil – 0.27lb/ft ² (1.3 kg/m ²) 60 mil – 0.32 lb/ft ² (1.6 kg/m ²)
Breaking strength, min, lbf (N)	D 751	220 (979)
Elongation at reinforcement break, min %	D 751	15%
Tearing strength, min, lbf (N)	D 751	55 lbf (245)
Brittleness point, min, °F (°C)	D 2137	-40 (-40)
Ozone resistance, no cracks	D 1149	Pass
Properties after heat aging: (retained values)	D 573	---
Breaking strength, % min.	D 751	90
Elongation at reinforcement break, % min	D 751	90
Tearing strength, % min.	D 751	60
Weight change (mass), max %	D 751	± 1%
Linear dimensional change, max, %	D 1204	± 1%
Factory seam strength, lbf (N)	D 751	65 (289)
Weather Resistance		
Visual	G 155	Pass
Breaking Strength, % min.	90	90
Elongation at Reinforcement Break, min, %	90	90
Water Vapor Permeance – Perm	E 96	0.0122
Puncture Resistance – lbf (N)	FTM 101C Method 2031	372 (1654)
Solar Reflectance	C 1549	.79

Installation

Consult current GenFlex TPO specifications and GenFlex TPO FB Bonding Adhesive LVOC product data sheet for installation requirements.

Preparation of Substrates

- Substrates must be clean, dry, smooth, free of sharp edges and fins, loose or foreign materials, oil, grease, or other materials which may damage the membrane.
- All rough surfaces which could damage the membrane shall be repaired as specified to offer a smooth substrate.
- All surface voids greater than ¼" (6.35 mm) wide shall be properly filled with an acceptable material.

*LEED® Information

Recycled Content
 Post-Consumer: 0%
 Post Industrial: 15%

Manufacturing Location: Tuscumbia, AL



* NOTE: LEED® is a registered trademark of the U.S. Green Building Council.
 ** Values were obtained from independent testing by Atlas Material Testing DSET Laboratories

Cool Roof Rating Council (CRRC)

Property	White	Gray	Tan	Tan HR
Solar Reflectance Initial*	0.80	0.34	0.61	-
Solar Reflectance Weathered*	0.70	0.34	0.55	-
Thermal Emittance Initial*	0.78	0.89	0.81	-
Thermal Emittance Weathered*	0.81	0.88	0.84	-
Solar Reflectance Index (SRI)**	98 / 84	37 / 36	74 / 63	-

* Values were obtained from independent testing by CRRC.
 ** SRI was calculated using the SRI calculator from the USGBC



Storage

- Product must be stored in original wrapper and kept dry until use.
- Opened material must be installed or stored in a clean dry place off the ground and tarped.
- Store TPO off the ground and cover with tarps.

Precautionary Data

- To avoid sources of punctures and physical damage, take care when moving, transporting, or handling.
- Should membrane get wet, open the roll, turn it over and allow to dry completely before installation.
- Exercise caution when lifting, moving, transporting, storing or handling membrane rolls to avoid sources of punctures and possible physical damage. Repair any wrapper tears or punctures to protect from moisture.
- Refer to Safety Data Sheet for additional information.

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

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