

Item Number

W590MWFM410 W590MWFM610 W590MWFGM610 W59GFLTFM610

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)
Tan HR, 60 mil	10' x 100' (3.05 m x 30.48 m)

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/ft² (1.3 kg/m²) 60 mil – 0.32 lb/ft² (1.6 kg/m²)
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 Breaking Strength, % min. Elongation at Reinforcement Break, min, %	G 155 90 90	Pass 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





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.

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- All rough surfaces which could damage the membrane shall be repaired as specified to offer a smooth substrate.
- All surface voids greater than ¹/₄" (6.35 mm) wide shall be properly filled with an acceptable material.

*LEED® Information

Recycled Content Post-Consumer: 0% Post Industrial: 15% Manufacturing Location: Tu

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 HR
Solar Reflectance Initial	0.80	0.34	0.73
Solar Reflectance Weathered	0.70	0.34	0.66
Thermal Emittance Initial	0.78	0.89	0.90
Thermal Emittance Weathered	0.81	0.88	0.91
Solar Reflectance Index (SRI)	98 / 84	37 / 36	90 / 81



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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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