EverGuard® TPO Fleece-Back Membrane

100, 115, 135 mil

Description:

GAF knows thermoplastic polyolefin (TPO). In fact, we've sold more than 7 billion square feet. GAF has been producing TPO for more than 20 years and operates 5 manufacturing plants around the United States. Combine performance and value with EverGuard® TPO Fleece-Back Membrane 100, 115, and 135.

Integral polyester fleece backing lets you offer the proven performance of EverGuard® TPO, while increasing durability and reducing labor:

- Provides enhanced puncture resistance against foot traffic, hail, and other impacts*
- Does not require a slip sheet when installed over a variety of existing roof systems
- Guarantees available with coverage up to 30 years for 135†

Installation:

Explore installation options. EverGuard® TPO Fleece-Back Membrane 100, 115, and 135 can be installed with a wide range of applications:

- Mechanically attached — quick, cost-effective, and available practically year-round
- Adhered — effective with EverGuard™ WB 181 Bonding Adhesive (water-based) or hot asphalt for a smooth appearance and excellent wind uplift
- LRF Adhesive O — low-rise foam that's low-VOC, ideal for minor surface irregularities, and available in a cartridge or 5-gallon container
- LRF Adhesive M — low-rise foam that's similar to LRF-O and can also be used for ISO insulation applications
- LRF Adhesive XF — 2-part low-rise foam that's low-VOC, ideal for minor surface irregularities, and can adhere up to 24 squares of Fleece-Back Membrane
- OlyBond500® — 2-part low-rise foam that's low-VOC, ideal for minor surface irregularities, and can adhere up to 24 squares of Fleece-Back Membrane

Easy-to-Install Accessories:

EverGuard™ TPO prefabricated accessories save you time and labor, deliver consistent performance, and create a uniform aesthetic.

EverGuard™ TPO Primerless 6" Cover Tape

Self-adhering patent-pending Primerless EverGuard™ TPO 6" Cover Tape is non-reinforced TPO membrane backed with a butyl tape adhesive.

EverGuard™ TPO Split Pourable Sealer Pocket

The low-profile design requires less sealant and can be cut down to size to more tightly fit around penetrations.

EverGuard™ TPO Vent Boot

One standard size of the molded membrane Vent Boot accommodates 1"– 6" (25.4 mm – 152 mm) pipes and conduits. Vent Boots come with stainless steel clamping rings for the top of the penetration.

EverGuard™ TPO Scuppers

Manufactured with TPO-coated metal and unreinforced membrane for use in waterproofing wall scuppers, eliminating unnecessary flashing to waterproof the wall opening.

See our complete line of time-saving prefabricated TPO Accessories

* GAF warranties and guarantees do not provide coverage against traffic except where GAF walkways are applied, or against hail or other impact. Refer to gaf.com for more information on warranty and guarantee coverage and restrictions. Hail or puncture resistance coverage may be available for purchase for eligible systems. Contact GAF for more information.

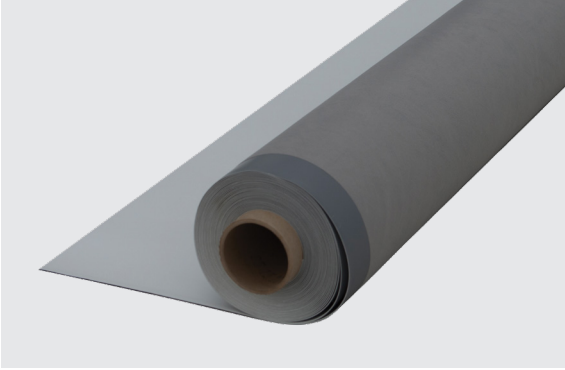
† Additional requirements apply. Contact GAF for more information. See applicable guarantee, available at gaf.com, for complete coverage and restrictions.

MADE IN THE U.S.A.
WITH DOMESTIC AND IMPORTED MATERIALS.
AMERICAN JOBS IN AMERICAN FACTORIES.

We protect what matters most™

EverGuard® TPO Fleece-Back Membrane

100, 115, 135 mil



Physical Properties (ASTM D6878-21) — See notes below

Type	ASTM Test Method	ASTM Minimum Values	EverGuard® TPO Fleece-Back Test Values (approx.)*		
			100 mil	115 mil	135 mil
TPO Nominal Thickness	ASTM D751	0.039″	0.045″ (1.14 mm)	0.060″ (1.52 mm)	0.080″ (2.03 mm)
Thickness over Scrim	ASTM D7635	0.015″	15.8 mil (Nominal)	22.1 mil (Nominal)	31.4 mil (Nominal)
Breaking Strength	ASTM D751 Grab Method MD	220 lbf (978 N)	375 lbf x 330 lbf (1,665 N x 2,188 N)	400 lbf x 360 lbf (1,779 N x 1,601 N)	440 lbf x 390 lbf (1,957 N x 1,735 N)
Elongation at Break	ASTM D751	15%	30%	30%	30%
Tear Strength	ASTM D751 (8″ x 8″ Sample)	55 lbf (245 N)	90 lbf x 120 lbf (400 N x 534 N)	70 lbf x 130 lbf (311 N x 578 N)	100 lbf x 180 lbf (445 N x 801 N)
Brittleness Point	ASTM D2137	-40°F (-40°C)	-40°F (-40°C)	-40°F (-40°C)	-40°F (-40°C)
Ozone Resistance	ASTM D1149	No cracks @ 7x magnification	No visible deterioration @ 7x magnification	No visible deterioration @ 7x magnification	No visible deterioration @ 7x magnification
Properties after Heat Aging	ASTM D573	≤1.5% weight change after 8 weeks @ 275°F (135°C); No cracks @ 7X magnification	Pass	Pass	Pass
Linear Dimensional Change	ASTM D1204	±1%	0.2%	0.4%	0.4%
Water Absorption	ASTM D471	±3%	0.7%	0.7%	0.7%
Factory Seam Strength (Membrane Failure)	ASTM D751	66 lbf (294 N)	115 lbf (512 N)	145 lbf (645 N)	155 lbf (689 N)
Weather Resistance	ASTM G155	10,080 kJ/m² at 340 nm; No cracks @ 7X magnification	>20,000 KJ/(m²•nm) at 340 nm	>25,000 KJ/(m²•nm) at 340 nm	>25,000 KJ/(m²•nm) at 340 nm

Additional Properties

Puncture Resistance	FTM 101C Method 2031	Not Established	379 lb. (171 kg)	426 lb. (193 kg)	500 lb. (226 kg)
Dynamic Puncture Resistance	ASTM D5635	Not Established	27.5 J	35 J	25 J
Permeance	ASTM E2178	Not Established	<0.02 (L/s•m²)	<0.02 (L/s•m²)	<0.02 (L/s•m²)

Available Guarantees†	Up to 20 years	Up to 25 years	Up to 30 years

* Values stated are approximate and subject to normal manufacturing variation. These values are not guaranteed and are provided solely as a guide.

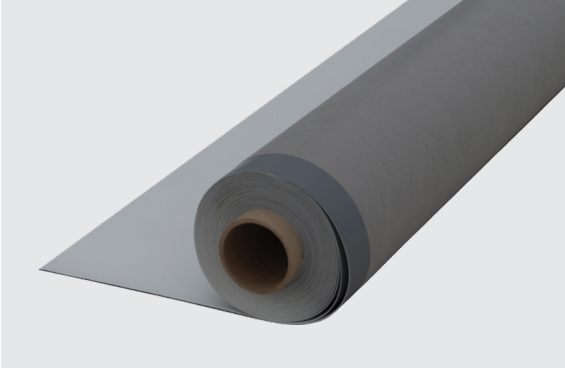
† Values stated are approximate and subject to normal manufacturing variation. These values are not guaranteed and are provided solely as a guide. GAF warranties and guarantees do not provide coverage against hail or other impact. See applicable guarantee or warranty, available at gaf.com, for complete coverage and restrictions. Hail or puncture-resistance coverage may be available for purchase for eligible systems. Contact GAF for more information. Note 1: 100, 115, and 135 TPO fleece-back sheets are composed of 45 mil, 60 mil, and 80 mil TPO membrane, respectively, with an integral fleece backing.

For additional information, contact GAF Design Services at **1-877-423-7663** or **designservices@gaf.com**

We protect what matters most™

EverGuard® TPO Fleece-Back Membrane

100, 115, 135 mil



Sustainability Ratings/Certifications

The ratings below are subject to CRRC rating program conditions, requirements, and limitations. Visit coolroofs.org for important information and disclaimers about CRRC rating conditions, requirements, and limitations.

Product ID#	Type	Solar Reflectance	Thermal Emittance	Solar Reflectance Index (SRI)
	ASTM Test Method	ASTM C1549	ASTM C1371	ASTM E1980
White 0676-0027	Initial	0.91	0.90	101
	Aged 3 yrs*	0.75	0.90	92
Gray 0676-0045	Initial	0.72	0.87	88
	Aged 3 yrs	0.67	0.90	82
Slate Gray 0676-0027	Initial	0.38	0.90	43
	Aged 3 yrs*	0.33	0.90	36

LEED Information

Manufacturing Location	Mount Vernon, IN, New Columbia, PA, Cedar City, UT, Valdosta, GA

Applicable Standards and Approvals

Classified by UL in accordance with ANSI/UL790, including Class A-rated roofing assemblies. Refer to UL Product iQ for specific assemblies.	FM Approved (Refer to roofnav.com for actual assemblies).	Miami-Dade County Product Control Approved
Meets or exceeds the requirements of ASTM D6878	State of Florida Approved	Meets or exceeds the requirements of the Texas Department of Insurance.

Can be used to comply with the Title 24, Part 6, Cool Roof Requirements of the California Code of Regulations. (White only)

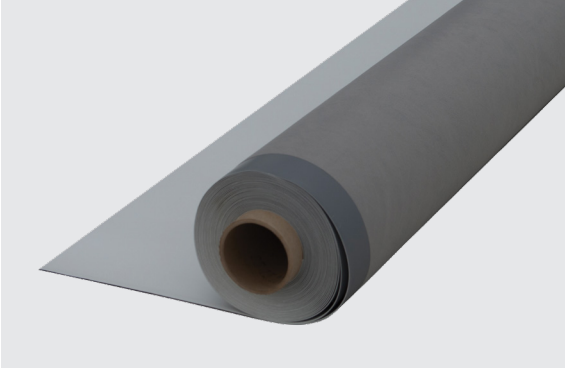
* CRRC Rapid Ratings: Interim laboratory-aged values that simulate naturally aged values and will be replaced by the measured three-year naturally aged values upon completion of the weathering process.

For additional information, contact GAF Design Services at **1-877-423-7663** or **designservices@gaf.com**

We protect what matters most™

EverGuard® TPO Fleece-Back Membrane

100, 115, 135 mil



Product Data

Roll Size	100 mil	115 mil	135 mil
12' Roll Size	12' x 100' (3.66 m x 30.5 m) 1,200 sq. ft. (111.5 sq. m)	12' x 100' (3.66 m x 30.5 m) 1,200 sq. ft. (111.5 sq. m)	12' x 100' (3.66 m x 30.5 m) 1,200 sq. ft. (111.5 sq. m)
12' Roll Weight (Average)	344 lb. (156 kg)	418 lb. (189 kg)	460 lb. (208 kg)
10' Roll Size	10' x 100' (3.05 m x 30.5 m) 1,000 sq. ft. (92.9 sq. m)	10' x 100' (3.05 m x 30.5 m) 1,000 sq. ft. (92.9 sq. m)	10' x 100' (3.05 m x 30.5 m) 1,000 sq. ft. (92.9 sq. m)
10' Roll Weight (Average)	286 lb. (130 kg)	348 lb. (158 kg)	383 lb. (174 kg)
6' Roll Size	6' x 100' (1.83 m x 30.5 m) 600 sq. ft. (55.7 sq. m)	6' x 100' (1.83 m x 30.5 m) 600 sq. ft. (55.7 sq. m)	6' x 100' (1.83 m x 30.5 m) 600 sq. ft. (55.7 sq. m)
6' Roll Weight (Average)	172 lb. (78 kg)	209 lb. (95 kg)	230 lb. (104 kg)
5' Roll Size	5' x 100' (1.52 m x 30.5 m) 500 sq. ft. (46.5 sq. m)	5' x 100' (1.52 m x 30.5 m) 500 sq. ft. (46.5 sq. m)	5' x 100' (1.52 m x 30.5 m) 500 sq. ft. (46.5 sq. m)
5' Roll Weight (Average)	143 lb. (65 kg)	174 lb. (79 kg)	192 lb. (87 kg)
Colors	White, Gray, Slate Gray		
Storage	Store on pallets in a clean, dry area at temperatures below 100°F (38°C).		
Safety Warning	Membrane rolls are heavy. Employ at least two people to position and install.		

For additional information, contact GAF Design Services
at **1-877-423-7663** or **designservices@gaf.com**

We protect what matters most™

©2026 GAF • COMEG857-PDF-0726