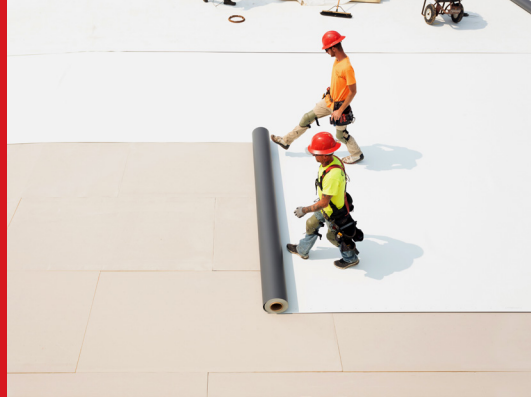
EverGuard Extreme® TPO Membrane

50, 60, 70, 80 mil



Durable. Efficient. Proven.

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.

GAF EverGuard Extreme® TPO Includes an enhanced weathering package that allows GAF to offer a guarantee of up to 35 years* for qualified systems, the longest in the industry.

- Great for high-heat and solar applications†
- Offers inherent flexibility, excellent heat-sealable properties, long-term heat and UV resistance, and fungal resistance‡
- GAF EverGuard Extreme® TPO is the leader in the industry with the highest reflectivity, emissivity, and SRI of available TPO membranes (White only) based on published CRRC ratings

EverGuard Extreme® TPO comes in 4 different thicknesses to fit a variety of needs. Guarantee information cited below is for qualified systems only.

- **50 mil** — Get the guarantee coverage of a standard 60 mil TPO with the benefit of the Extreme heat-aging package
  - **Labor-Saving Tip**: GAF EverGuard Extreme® TPO 50 mil can be installed without T-Joint patches and still qualify for 25-year guarantee, unlike 60 mil TPO membrane
- **60 mil** — Guarantee coverage up to 30 years available when installing with eligible adhered and induction-welded systems
- **70 mil** — Eligible for a 30-year* guarantee, the same as a standard 80 mil TPO
- **80 mil** — Eligible for guarantees up to 35 years*, the longest in the industry

Sustainability:

- Product-specific Environmental Product Declaration (EPD)
- Red List Approved Declare Label
- NSF Protocol P151 Approved for Rainwater Catchment System Components (White only)
- Third-party certified recycled content (3 – 10% recycled content)

Installation:

EverGuard Extreme® TPO is suitable for all types of single-ply systems:

- **Mechanically Attached** — for a quick and cost-effective system that can be installed practically year-round
- **Induction Welded** — can be applied without using adhesives and installed practically year round. Qualifies for the same guarantee length as an adhered system.
- **Adhered** — can be installed with EverGuard™ TPO Quick Spray, EverGuard™ TPO Quick Spray LV50, EverGuard™ TPO Low VOC Bonding Adhesive, EverGuard™ TPO 3 Square Low VOC Bonding Adhesive, EverGuard™ TPO SBA 1121 Bonding Adhesive, or EverGuard™ WB 181 Bonding Adhesive for the smoothest appearance

Specialized training from GAF Roofing It Right videos and CARE classes add to GAF's exceptional technical support.

Easy-to-Install Accessories:

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

EverGuard Extreme™ 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 Extreme™ 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 Extreme™ 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

* Additional requirements apply. Contact GAF for more information. See applicable guarantee, available at gaf.com, for complete coverage and restrictions.
† Per ASTM D573-13.
‡ Meets ASTM G21. GAF warranties and guarantees do not provide coverage against fungi or other biological growth. Refer to gaf.com for more information on warranty and guarantee coverage and restrictions.
§ Excludes TPO accessories.

MADE IN THE U.S.A.
WITH DOMESTIC AND IMPORTED MATERIALS.
AMERICAN JOBS IN AMERICAN FACTORIES.
For TPO membrane rolls only§

Declare.

We protect what matters most™

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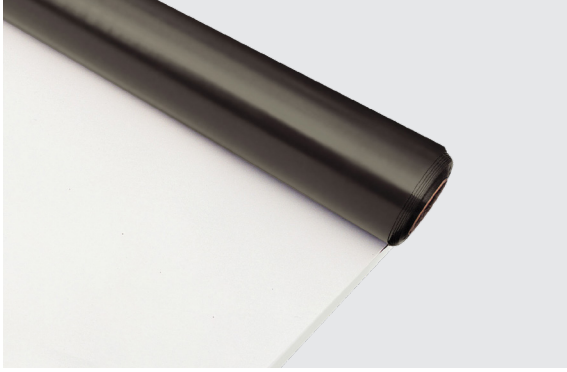

Physical Properties (ASTM D6878-21) — See notes below*

Type	ASTM Test Method	ASTM Minimum Values	EverGuard Extreme® TPO Test Values (approx.)†			
			50 mil	60 mil	70 mil	80 mil
TPO Nominal Thickness	ASTM D751	0.039"	0.050" (1.27 mm)	0.060" (1.52 mm)	0.070" (1.78 mm)	0.080" (2.03 mm)
Thickness over Scrim	ASTM D7635	0.015"	20 mil (nominal)	26 mil (nominal)	27 mil (nominal)	33 mil (nominal)
Breaking Strength	ASTM D751 Grab Method MD	220 lbf (978 N)	360 lbf x 320 lbf (1,661 x 1,423 N)	385 lbf x 345 lbf (1,712 x 1,535 N)	420 lbf x 375 lbf (1,868 x 1,668 N)	445 lbf x 205 lbf (1,979 x 912 N)
Elongation at Break	ASTM D751	15%	29.40%	29%	29.60%	28.60%
Tear Strength	ASTM D751 (8″ x 8″ Sample)	55 lbf (245 N)	70 lbf x 140 lbf (311 x 623 N)	71 lbf x 134 lbf (316 x 596 N)	59 lbf x 125 lbf (262 x 556 N)	62 lbf x 155 lbf (276 x 689 N)
Brittleness Point	ASTM D2137	-40°F (-40°C)	-40°F (-40°C)	-40°F (-40°C)	-40°F (-40°C)	-40°F (-40°C)
Ozone Resistance	ASTM D1149	No cracks @ 7x magnification	Pass	Pass	Pass	Pass
Properties after Heat Aging	ASTM D573	≤1.5% weight change after 8 weeks @ 275°F (135°C); No cracks @ 7X magnification	Pass	Pass	Pass	Pass
Linear Dimensional Change	ASTM D1204	±1%	0.35%	0.34%	0.39%	0.27%
Water Absorption	ASTM D471	±3%	0.15%	0.12%	0.29%	0.14%
Factory Seam Strength (Membrane Failure)	ASTM G751	66 lbf (294 N)	123 lbf (547 N)	134 lbf (596 N)	149 lbf (663 N)	161 lbf (716 N)
Weather Resistance	ASTM G155	10,080 kJ/m² at 340 nm; No cracks @ 7x magnification	>46,000 kJ/m²	>56,000 kJ/m²	>56,000 kJ/m²	>56,000 kJ/m²

Additional Properties

Puncture Resistance	FTM 101C Method 2031	Not Established	437 lb. (198 kg)	462 lb. (210 kg)	479 lb. (217 kg)	524 lb. (238 kg)
Accelerated UV Exposure	UAWS	Total radiation @ 8,400 MJ/m² UV, no cracking	Pass	Pass	Pass	Pass

Available Guarantees‡	Up to 25 Years	Up to 30 Years	Up to 30 Years	Up to 35 Years

* Certain data is provided in MD (machine direction) x CMD (cross machine direction) format.
† Values stated are approximate and subject to normal manufacturing variation. These values are not guaranteed and are provided solely as a guide.
‡ Additional requirements apply. Contact GAF for more information. See sample guarantees at gaf.com for complete coverage and restrictions.

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

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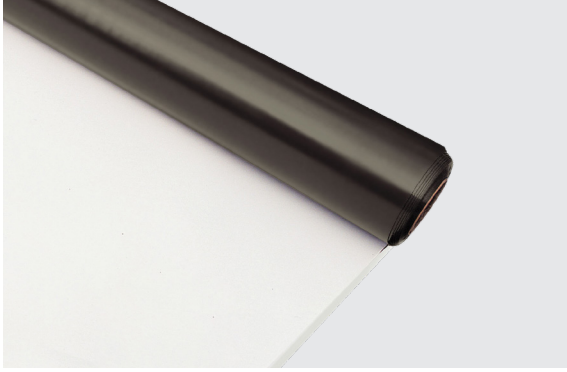

Sustainability Ratings/Certifications

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	E1980
White 0676-0088	Initial	0.83	0.84	104
	Aged 3 yrs*	0.72	0.91	90

LEED Information

Manufacturing Location	Mount Vernon, IN, Gainesville, TX

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	Texas Department of Insurance Report RC-122
Canadian Construction Materials Centre (CCMC) Evaluation # 14063-L (Cedar City, UT, and Gainesville, TX only)	ICC-ES Evaluation Report ESR-4676 (Gainesville, TX only)	UL Evaluation Report UL ER1306-01
Can be used to comply with the Title 24, Part 6, Cool Roof Requirements of the California Code of Regulations. (White only)	NSF Protocol P151 Approved for Rainwater Catchment System Components (White only) (Gainesville, TX only)	

Product Data

Roll Size	50 mil	60 mil	70 mil	80 mil
10' Roll Size	10' x 100' (3.05 x 30.5 m) 1,000 sq. ft. (92.9 sq.m)	10' x 100' (3.05 x 30.5 m) 1,000 sq. ft. (92.9 sq.m)	10' x 100' (3.05 x 30.5 m) 1,000 sq. ft. (92.9 sq.m)	10' x 100' (3.05 x 30.5 m) 1,000 sq. ft. (92.9 sq.m)
10' Roll Weight (Average)	271 lb. (123 kg)	322 lb. (146 kg)	373 lb. (163 kg)	420 lb. (191 kg)
5' Roll Size	5' x 100' (1.52 x 30.5 m) 500 sq. ft. (46.5 sq.m)	5' x 100' (1.52 x 30.5 m) 500 sq. ft. (46.5 sq.m)	5' x 100' (1.52 x 30.5 m) 500 sq. ft. (46.5 sq.m)	5' x 100' (1.52 x 30.5 m) 500 sq. ft. (46.5 sq.m)
5' Roll Weight (Average)	136 lb. (61.7 kg)	162 lb. (73.5 kg)	136 lb. (61.7 kg)	210 lb. (95 kg)
Colors	White			
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.			

* 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.
Product-specific EPD contributes toward satisfying Environmental Product Declaration credit under LEED®.
Membrane rolls shipped horizontally on pallets, stacked pyramid-style and banded.

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

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