

# EverGuard® TPO 45 mil Membrane Product Data Sheet

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North America's Largest Roofing Manufacturer!™*

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# Product Data Sheet

## EverGuard® TPO

### 45 mil Membrane

**Title 24\***  
**Compliant**



#### Description

GAF EverGuard® TPO 45 mil thermoplastic polyolefin single-ply membrane systems have been engineered to provide premium performance at a very cost-effective price. Strong, flexible, durable EverGuard® TPO 45 mil membrane is suitable for use in all types of single-ply systems: Mechanically Attached, Fully Adhered, and Ballast Applied.

Compared to typical single-ply EPDM and PVC membranes, GAF EverGuard® TPO 45 mil roofing membrane provides the benefits of low installed cost, heat welded seams, white reflective color.\*

#### Applicable Standards

UL Listed, FM Approved, Dade County Product Approval, Florida Building Code Approved, CRRC Listed, Title 24 Compliant, ENERGY STAR® Listed, ASTM D6878.

Physical Properties	ASTM Test Method	ASTM 6878 Minimum	EverGuard® Typical Test Data
1. Certain data is provided in MD (machine direction) x CMD (cross machine direction) format. 2. Data is based upon typical product performance, and is subject to normal manufacturing tolerance and variance			
Nominal Thickness	ASTM D-751	0.039" (min.)	0.045"
Breaking Strength	ASTM D-751 Grab Method	220 lbf/in.	290 lbf x 270 lbf
Factory Seam Strength	ASTM D-751	66 lbf	100 lbf (membrane failure)
Elongation at Break	ASTM D-751	15%	30%
Heat Aging	ASTM D-573	90% Retention of Breaking Strength and Elongation at Break	100%
Tear Strength	ASTM D-751 8" x 8" Sample	55 lbf	124 lbf x 140 lbf
Puncture Resistance	FTM 101C Method 2031	Not Established	290 lbs.
Cold Brittleness	ASTM D-2137	-40 C	-40 C
Permeance	ASTM E-96	Not Established	0.070 Perms
Dimensional Change	ASTM D-1204 @158 F, 6 hrs.	+/- 1%	0.4%
Water Absorption	ASTM D-471 @158 F, 1 week	+/- 3.0% max.	0.7%
Hydrostatic Resistance	ASTM D-751 Method D	Not Established	390 psi
Ozone Resistance	ASTM D-1149	No visible deterioration @ 7 x magnification	No visible deterioration @ 7 x magnification
Reflectivity (white)	ASTM C1549	N/A	0.76
Emissivity (white)	ASTM C1371	N/A	0.90

#### Product Data

<b>Roll Size</b>	Note: Product sizes, dimensions, and widths are nominal values and are subject to normal manufacturing/packaging tolerance and variation				
	<b>Colors</b>	<b>Full Roll Size</b>	<b>Full Roll Weight</b>	<b>Half Roll Size</b>	<b>Half Roll Weight</b>
	White, Tan, Gray, Regal Red, Regal Blue, Hartford Green	10' x 100' (1,000 sq.ft.)	256 lbs.	5' x 100' (500 sq.ft.)	128 lbs.
8' x 100' (800 sq.ft.)		204.8 lbs.	4' x 100' (400 sq.ft.)	102.4 lbs.	
Note: Membrane rolls shipped horizontally on pallets.					
<b>Storage</b>	Store rolls on their sides on pallets or shelving in a dry area				
<b>Safety Warning</b>	Membrane rolls are heavy. Position and install by at least two people.				

\* White Membrane Only

Energy Star® only valid in the USA