

EverGuard® TPO 80 mil Fleece-Back Membrane Product Data Sheet

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Product Data Sheet EverGuard® TPO 80 mil Fleece-Back Membrane

**Title 24
Compliant** *



Description

GAF EverGuard® 80 mil Fleece-Back (FB) thermoplastic polyolefin single-ply membrane systems have been engineered to provide superior long-term performance and enhanced durability. Strong, flexible EverGuard® 80 mil membrane is suitable for use in Mechanically Attached and Fully Adhered single-ply systems. The polyester fleece backing allows direct membrane application to rough substrate surfaces such as structural concrete and cementitious wood fiber.

Compared to other heavy-duty single-ply EPDM, PVC and TPO membranes, GAF EverGuard® 80 mil FB roofing membrane provides the benefits of all three materials in a single membrane: low installed cost, heat welded seams, white reflective color, and no liquid plasticizers.

Applicable Standards

UL approved for use in the construction of Class A, B, or C roofs, FM Approved, ASTM D6878, Dade County Product Approval

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 membrane only product performance, and is subject to normal manufacturing tolerance			
Nominal Thickness	ASTM D-751	0.039" (min.)	0.080"
Breaking Strength	ASTM D-751 Grab Method	220 lbf/in.	400 lbf x 360 lbf
Seam Strength	ASTM D-751	66 lbf	140 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	70 lbf x 170 lbf
Puncture Resistance	FTM 101 Method 2031	Not Established	>380 lbs.
Cold Brittleness	ASTM D-2137	-40 C	-40 C
Permeance	ASTM E-96	Not Established	0.01 Perms
Dimensional Change	ASTM D-1204 @158 F, 6 hrs.	+/- 1%	0.4%
Water Absorption	ASTM D-471 @158 F, 1 week	+/- 3%	0.7%
Hydrostatic Resistance	ASTM D-751 Method D	Not Established	430 psi
Ozone Resistance	ASTM D-1149	No visible deterioration @ 7 x magnification	No visible deterioration @ 7 x magnification
Reflectivity (white)	ASTM C1549 & E408	N/A	0.76
Emissivity	ASTM E408	N/A	0.90

Product Data

Roll Size	Note: Product sizes, dimensions, and widths are nominal values and are subject to normal manufacturing/packaging tolerance and variation				
	Colors	Full Roll Size	Full Roll Weight	Half Roll Size	Half Roll Weight
	White, Tan, Gray	10' x 50' (500 sq.ft.)	232 lbs.	5' x 50' (250 sq.ft.)	116 lbs.
	Note: Membrane rolls shipped horizontally on pallets, stacked pyramid-style and banded				
Storage	Store rolls on their sides on pallets or shelving in a dry area				
Safety Warning	Membrane rolls are heavy, and are best positioned and installed by at least two people.				

* White Membrane Only

Energy Star® only valid in the USA