

EverGuard® TPO 45 mil Fleece-Back Membrane Product Data Sheet

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Product Data Sheet

EverGuard® TPO

45 mil Fleece-Back Membrane

Title 24*
Compliant



Description

GAF EverGuard® 45 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® 45 mil FB membrane is suitable for use in Mechanically Attached, Ballasted, Fully Adhered and TriPosite XL single-ply systems and 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® 45 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 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 membrane only product performance, and is subject to normal manufacturing tolerances.			
Nominal Thickness	ASTM D-751	0.039" (min.)	0.045"
Breaking Strength	ASTM D-751 Grab Method	220 lbf/in.	430 lbf x 360 lbf
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	90 lbf x 120 lbf
Puncture Resistance	FTM 101 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%	0.2%
Water Absorption	ASTM D-471 @ 158 F, 1 week	+/- 3%	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

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 100' (1,000 sq.ft.)	284 lbs.	5' x 100' (500 sq.ft.)	142 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. Position and install by at least two people.				

* White, Energy Tan and Energy Gray Membrane Only

Energy Star® only valid in the USA