

EverGuard® TPO 45mil Fleece-Back Membrane

Information Sheet



*Quality You Can Trust Since 1886...
From North America's Largest Roofing Manufacturer™*

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 and Fully Adhered 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 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 tolerances.			
Nominal Thickness	ASTM D-751	0.039" (min.)	0.045"
Breaking Strength	ASTM D-751 Grab Method	220 lbf/in.	375 lbf x 330 lbf
Seam Strength	ASTM D-751	66	90
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	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 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, and are best positioned and installed by at least two people.				

* White Membrane Only