

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, PVC and TPO membranes, GAF EverGuard TPO 45 mil 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, ICC-ES Legacy Report #ER-6030

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.	285 lbf x 245 lbf
Factory Seam Strength	ASTM D-751	66 lbf	Pass (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	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.)	256 lbs.	5' x 100' (500 sq.ft.)	128 lbs.
Note: Membrane rolls shipped horizontally on pallets.					
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