

EverGuard® Extreme™ TPO 80 mil Membrane Product Data Sheet

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Product Data Sheet

EverGuard® Extreme™ TPO

80 mil Membrane

**Title 24 *
Compliant**

Description

GAF EverGuard® Extreme™ TPO 80 mil thermoplastic polyolefin single-ply membrane systems have been engineered to provide high solar reflectivity and extremely high UV and thermal resistance. These improved properties have been incorporated into GAF's EverGuard® TPO formulation to provide a sheet that combines excellent installation characteristics, high reflectivity and superior resistance to the elements especially heat.

These combined characteristics produce a single-ply membrane suitable for the most demanding solar installations as well as any other high heat or solar loading applications.

Applicable Standards

UL Listed, FM Approved, ASTM D6878.

Physical Properties	ASTM Test Method	ASTM 6878 Minimum	EverGuard® Extreme™ 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.)	0.080"
Breaking Strength	ASTM D-751 Grab Method	220 lbf/in.	360 lbf x 340 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	60 lbf x 150 lbf
Puncture Resistance	FTM 101C 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	N/A	0.835
Emissivity (white)	ASTM C1371	N/A	0.84
Weather Resistance	ASTM G155	10,080 KJ/(m ² . nm) at 340 nm	>30,240 KJ/(m ² . nm) at 340

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
	White	10' x 100' (1,000 sq.ft.)	420 lbs.	5' x 100' (500 sq.ft.)
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.			