



# Product Data Sheet

## EverGuard® Freedom™ TPO with RapidSeam™

**Title 24  
Compliant**



### Description

EverGuard® Freedom™ TPO with RapidSeam™ technology is a fully self-adhered membrane available in 3 versatile colors: ENERGY STAR® qualified white, tan, and gray. Freedom™ membranes combine EverGuard®'s proven TPO technology with an added engineered adhesive preapplied to the bottom of the sheet for quick, hassle-free installation. Freedom™ SA membrane with RapidSeam™ includes a surface adhesive seaming technology so unique, it's patent pending. Freedom™ membranes are especially suited for schools and hospitals, high-rises and limited access buildings, and coastal locations and areas subject to extreme wind conditions. RapidSeam™ advantages include installation up to 50 times faster than taped seams and over three times faster than adhesive applications; it eliminates the need for 95% of chemical seam preparation solutions; there are no open flames or hot asphalt on your roof; and the factory-applied adhesive eliminates guesswork or uncertainty by the installer, resulting in uniform application.

### 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 for 045
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.	280 lbf x 270 lbf
Factory Seam Strength	ASTM D-751	66 lbf	110 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	100 lbf x 120 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	0.08 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	380 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

<b>Roll Size</b>	Note: Product sizes, dimensions, and widths are nominal values and are subject to normal manufacturing/packaging tolerance and variation			
	<b>Colors</b>	<b>Full Roll Size</b>	<b>Roll Weight (nominal)</b>	
	45 mil White 60 mil White, Tan & Gray	5' x 50' (1.52m x 15.2m)	<b>45 mil</b> 74 lbs. (33.6 kg)	<b>60 mil</b> 93 lbs. (42.2 kg)
<b>Storage</b>	Note: Membrane rolls shipped horizontally on pallets. Store on pallets in a clean, dry area at temperatures below 100°F; protect adhesive side from exposure to direct sunlight; and use care when handling the adhesive side of material. The adhesive is aggressive and will stick to skin.			
<b>Safety Warning</b>	Membrane rolls are heavy. Position and install by at least two people.			