

# EverGuard Freedom TPO HW

## Information Sheet



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# Product Data Sheet

## EverGuard® Freedom™ TPO HW

**Title 24\***  
**Compliant**



### Description

EverGuard® Freedom™ TPO HW is a self-adhered membrane with a heat weldable seam available in 45 mil and 60 mil thickness in 2 versatile colors: ENERGY STAR® qualified white and earth tone tan. 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™ HW membrane includes a traditional 3" heat weldable seam. 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. Advantages include 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.	290 lbf x 270 lbf
Factory 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	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 (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>Full Roll Weight</b>			<b>Half Roll Size</b>	<b>Half Roll Weight</b>		
			<b>45</b>	<b>60</b>	<b>80</b>		<b>45</b>	<b>60</b>	<b>80</b>
White, Tan & Gray	10' x 50' 10' x 100'	150 301	190 365	230 450	5' x 50' 5' x 100'	74 148	101 192	120 230	
<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.								

\* White Membrane Only