

# **EverGuard Extreme® Fleece-back TPO 50 mil Membrane Data Sheet**

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North America's Largest Roofing Manufacturer!™*

# EverGuard Extreme® Fleece-back TPO 50 mil Membrane

## Applicable Standards

UL approved for use in the construction of Class A, B, or C roofs; FM Approved, ASTM D6878, Title 24 Compliant, Miami-Dade County Approved, Florida Building Code Approved, ENERGY STAR® Qualified.\*

Physical Properties	ASTM Test Method	ASTM D6878 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 D751	0.039" (min.) (0.99 mm)	0.050" (1.27 mm)
Breaking Strength	ASTM D751 Grab Method	220 lbf/in. (38.5 kn/m)	375 lbf x 330 lbf (559 x 492 kg/m)
Factory Seam Strength	ASTM D751	66 lbf (98.34 kg/m)	140 lbf (209 kg/m) (membrane failure)
Elongation at Break	ASTM D751	15%	30%
Heat Aging	ASTM D573	90% Retention of Breaking Strength and Elongation at Break	100%
Tear Strength	ASTM D751 8" x 8" (203 x 203 mm) Sample	55 lbf (81.95 kg/m)	70 lbf x 130 lbf (104 x 194 kg/m)
Puncture Resistance	FTM 101C Method 2031	Not Established	>380 lbs. (172 kg)
Cold Brittleness	ASTM D2137	-40°C	-40°C
Permeance	ASTM E96	Not Established	0.08 Perms
Dimensional Change	ASTM D1204 @158°F (70°C), 6 hrs.	+/-1%	0.4%
Water Absorption	ASTM D471 @158°F (70°C), 1 week	+/-3.0%	0.7%
Hydrostatic Resistance	ASTM D751 Method D	Not Established	430 psi
Ozone Resistance	ASTM D1149	No visible deterioration @ 7 x magnification	No visible deterioration @ 7 x magnification
Reflectivity (white) Initial/Aged	ASTM C1549	N/A	0.84/0.72
Emissivity (white) Initial/Aged	ASTM E408	N/A	0.84/0.91
Weather Resistance	ASTM G155/D6878	10,080 kJ/(m <sup>2</sup> · nm) at 340 nm	>46,000 kJ/(m <sup>2</sup> · nm) at 340 nm
Heat Aging	ASTM D573	240°F (115°C) for 32 weeks	128 weeks
Thickness Above Scrim	ASTM D7635	Min 30% of Total Thickness	17.9 mil (Nominal)
<b>Guarantee</b>			
Up to 25 years			

\*ENERGY STAR® only valid in the USA

## 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 Size Roll</b>	<b>Full Roll Weight</b>	<b>Half Roll Size</b>	<b>Half Roll Weight</b>
	White	10' x 100' (3.05 x 30.5 m) (1,000 sq. ft. [92.9 sq.m])	350 lbs. (159 kg)	5' x 100' (1.52 x 30.5 m) (500 sq. ft. [46.5 sq.m])	180 lbs. (82 kg)
Note: Membrane rolls shipped horizontally on pallets, stacked pyramid-style and banded.					
<b>Storage</b>	Store rolls on their sides on pallets or shelving in a dry area.				
<b>Safety Warning</b>	Membrane rolls are heavy. Position and install by at least two people.				



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