

# Technical Information Sheet



## UltraPly™ TPO Platinum Membrane

Item Description	Item Number
1 Roll	Various
<i>Meets or exceeds ASTM D 6878</i>	

### Description

Elevate UltraPly TPO Platinum membrane is a flexible, 0.080" (2.03 mm) thick, Thermoplastic Polyolefin (TPO) roofing membrane, reinforced with polyester, weft-inserted scrim. This heat weldable TPO Platinum membrane is available in 0.080" (2.0 mm) thickness and widths up to 12'4" (3.8 m). Elevate Platinum TPO is available in white, tan and gray. This reflective membrane is suitable for a variety of low-slope applications.

### Method of Application

1. Substrates must be clean, dry, smooth, and free of sharp edges, fins, loose or foreign materials, oil, grease, and other materials that may damage the membrane.
2. All rough surfaces that can damage the membrane shall be repaired as specified to offer a smooth substrate.
3. All surface voids greater than ¼" (6.4 mm) wide shall be properly filled with an acceptable fill material.
4. Elevate UltraPly TPO Platinum membrane is installed as continuous roofing or waterproofing layer on the roof. Rolls are overlapped (side laps and end laps) prior to the heat welding of the seam areas.
5. Install UltraPly TPO Platinum Roofing System in accordance with current Elevate UltraPly TPO Platinum membrane specifications, details, and workmanship requirements.

### Storage

- Store away from sources of punctures and physical damage.
- Assure that structural decking will support the loads incurred by material when stored on rooftop. The deck load limitations should be specified by the project designer.
- Store away from ignition sources as membrane will burn when exposed to open flame.

## Precautions

- Refer to Safety Data Sheets (SDS) for safety information.
- Exercise caution when lifting, moving, transporting, storing, or handling membrane rolls to avoid sources of punctures and possible physical damage.
- Contact a Regional Technical Coordinator at 1-800-428-4511 for specific recommendations regarding chemical or waste product compatibility with Elevate UltraPly TPO Platinum Membrane.

## LEED® Information

Post-Consumer Recycled Content: 0%  
 Post Industrial Recycled Content: 15%  
 Manufacturing Location: Wellford, SC or Tuscumbia, AL  
 NOTE: LEED® is a registered trademark of the U.S. Green Building Council



Typical Properties (Meets or Exceeds ASTM D 6878 Specification)			
Properties	ASTM Standard	Performance Minimum	Typical Performance 80 mil
Overall Thickness	D 751	0.039" (1.0 mm)	0.080" (2.03 mm) ± 10%
Coating over Scrim	D 7635	0.015" (0.381 mm)	0.033" (0.84 mm)
Breaking Strength	D 751, Grab Method	220 lbf (979 N)	460 lbf (2,046 N)
Elongation of Reinforcement Break	D 751, Grab Method	15%	25%
Tearing Strength	D 751	55 lbf (245 N)	120 lbf (534 N)
Brittleness Point	D 2137	-40 °F (-40 °C)	Pass
Ozone Resistance, No Cracks	D 1149	Pass	Pass
Properties After Heat Aging (Retained Values) ASTM D 573-5376 h (224 days or 32 weeks) at 240 °F (116 °C)			
Breaking Strength	D 751, Grab Method	90% Minimum	> 90%
Elongation at Break	D 751, Grab Method	90% Minimum	> 90%
Tearing Strength	D 751	60% Minimum	> 60%
Weight of Change	---	± 1% Maximum	< 1%
Linear Dimension Change	D 1204, 6 h at 158 °F (70 °C)	± 1% Maximum	< 1%
Water Absorption	D 471	± 3% Maximum	< 3%
Weather Resistance	G 155	> 60,000 kJ/m <sup>2</sup>	> 60,000 kJ/m <sup>2</sup>
176 °F (80 °C) Black Panel, no cracking, crazing when wrapped around a 3" (76.2 mm) mandrel and inspected at 7X magnification			
Puncture Resistance	FTM 101C, Method 2031	---	450 lbf (2,002 N)
Dynamic Puncture Resistance MD	D 5635	---	Pass (60 J)

### Typical Properties (Continued)

Dynamic Puncture Resistance CD	D 5635	---	Pass (60 J)
Static Puncture Resistance	D 5602	---	Pass (25 kg)
Air Permeance (Material)	E 2178	< 0.004 ft <sup>3</sup> /ft <sup>2</sup> (L/(s·m <sup>2</sup> ))	Pass
1. The ASTM 2178 values listed above are for the air permeance of the UltraPly TPO Membrane component only. 2. When system design includes an air barrier, please consult a Regional Technical Coordinator for additional roof system securement enhancements. 3. Consult the Designer / Architect, Code Agency or Authority having Jurisdiction (AHJ) for requirements regarding the selection and use of an appropriate air barrier material, and its installation into the building envelope.			

### Radiative Properties

Cool Roof Ratings Council (CRRC): Values: Initial / 3 Year	White	Light Tan (HR)	Gray
Solar Reflectance	0.79 / 0.69	0.73 / 0.66	0.34 / 0.34
Thermal Emittance	0.85 / 0.83	0.90 / 0.90**	0.89 / 0.88
Solar Reflectance Index (SRI)	98 / 83	90 / 91	37 / 36
Rated Product ID	0008	0091	0032
Licensed Manufacturer ID	0608	0608	0608
Classification	Production Line	Production Line	Production Line
LEED®	White	Light Tan (HR)	Gray
Initial Solar Reflectance Index (SRI)	Pass (98)	---	---
3-year Aged Solar Reflectance Index (SRI)	Pass (83)	---	---

### Product Sizes

Membrane Thickness: 0.080" (2.03 mm)	Membrane Weight: 0.38 lb/ft <sup>2</sup> (1.9 kg/m <sup>2</sup> )
Available Sizes	Available Colors
5' x 100' (1.5 m x 30.5 m)	White, Tan, Gray
6' 2" x 100' (1.9 m x 30.5 m)	White
8' x 100' (2.4 m x 30.5 m)	White, Tan, Gray
10' x 100' (3.0 m x 30.5 m)	White, Tan, Gray
12'4" x 100' (3.8 m x 30.5 m)	White

Please contact Holcim Technical Services at 800-428-4511 for further information.

This sheet is meant to highlight Elevate products and specifications and is subject to change without notice. Holcim takes responsibility for furnishing quality materials that meet published Elevate product specifications or other technical documents, subject to normal manufacturing tolerances. Neither Holcim nor its representatives practice architecture. Holcim offers no opinion on and expressly refuses any responsibility for the soundness of any structure. Holcim accepts no liability for structural failure or resultant damages. Consult a competent structural engineer prior to installation if the structural soundness or structural ability to properly support a planned installation is in question. No Holcim representative is authorized to vary this disclaimer.