

Technical Information Sheet



UltraPly™ TPO Membrane

 Item Description
 Item Number

 1 Roll
 Various

 Meets or exceeds ASTM D 6878.

Description

Elevate UltraPly TPO is a flexible Thermoplastic Polyolefin roofing membrane that is produced with polyester weft-inserted reinforcement. UltraPly TPO membrane meets or exceeds all requirements for ASTM D 6878 Specification. This heat weldable TPO membrane is available in 45 mil (1.14 mm) and 60 mil (1.52 mm) thicknesses. 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 1/4" (6.3 mm) wide shall be properly filled with an acceptable fill material.
- 4. Elevate UltraPly TPO membrane is installed as continuous roofing or waterproofing layer on the roof. Rolls are overlapped (side laps and end laps) prior to heat welding the seam areas.
- 5. Install the UltraPly TPO Roofing System in accordance with current Elevate UltraPly TPO 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.

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Precautions

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

LEED® Information

Post-Consumer Recycled Content: 0%
Post Industrial Recycled Content: 15%

Manufacturing Location: Wellford, SC / Tuscumbia, AL NOTE: LEED® is a registered trademark of the U.S. Green Building Council













Typical Properties					
Properties	ASTM Standard	Performance Minimum	Typical Performance 45 mil	Typical Performance 60 mil	
Overall Thickness	D 751	0.039" (1 mm)	0.045" (1.14 mm) ± 10%	0.060" (1.52 mm) ± 10%	
Coating Over Scrim	D 7635	0.015" (0.38 mm)	0.017" (0.43 mm)	0.021" (0.53 mm)	
Breaking Strength	D 751, Grab Method	220 lbf (979 N)	340 lbf (1,512 N)	390 lbf (1,735 N)	
Elongation of Reinforcement Break	D 751, Grab Method	15%	25%	25%	
Tearing Strength	D 751	55 lbf (245 N)	120 lbf (534 N)	120 lbf (534 N)	
Brittleness Point	D 2137	-40 °F (-40 °C)	Pass	Pass	
Ozone Resistance, No Cracks	D 1149	Pass (No Cracks)	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%	> 90%	
Elongation at Break	D 751, Grab Method	90% Minimum	> 90%	> 90%	
Tearing Strength	D 751	60% Minimum	> 60%	> 60%	
Weight of Change		± 1% Maximum	< 1%	< 1%	
Linear Dimension Change	D 1204, 6 h at 158 °F (70 °C)	± 1% Maximum	< 1%	< 1%	
Water Absorption	D 471	± 3% Maximum	< 3%	< 3%	

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Typical Properties (Continued)					
Weather Resistance*	G 155	10,800 kJ/m² Minimum	> 60,000 kJ/m ²	> 60,000 kJ/m ²	
*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		265 (1,180)	300 (1,300)	
Dynamic Puncture Resistance MD	D 5635		Pass (20 J)	Pass (40 J)	
Dynamic Puncture Resistance CD	D 5635		Pass (35 J)	Pass (50 J)	
Static Puncture Resistance	D 5602		Pass (25 kg)	Pass (25 kg)	
Air Permeance (Material)	E 2178	< 0.004 ft ³ /ft ² (0.02 L/(s*m ²)	Pass	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 your Elevate Technical Services Advisor 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 / 0.64	0.34 / 0.34		
Thermal Emittance	0.85 / 0.83	0.90 / 0.91	0.89 / 0.88		
Solar Reflectance Index (SRI)	98 / 83	90 / 87	37 / 36		
Rated Product ID	8000	TBD	0032		
Licensed Manufacturer ID	0608	TBD	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)				



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Product Sizes				
Membrane Thickness: 0.045" (1.14 mm) Membrane Weight: 0.23 lb/ft² (1.1 kg/m²)		Membrane Thickness: 0.060" (1.52 mm) Membrane Weight: 0.31 lb/ft² (1.5 kg/m²)		
Available Sizes	Available Colors	Available Sizes	Available Colors	
5' x 100' (1.5 x 30.5 m)	White, Tan, Gray	5' x 100' (1.5 x 30.5 m)	White, Tan, Gray	
5' x 200' (1.5 x 61 m)	White	5' x 200' (1.5 x 61 m)	White	
6' 2" x 100' (1.9 x 30.5 m)	White, Tan, Gray	6' 2" x 100' (1.9 x 30.5 m)	White, Tan, Gray	
8' x 100' (2.4 x 30.5 m)	White, Tan, Gray	8' x 100' 2.4 x 30.5 m)	White, Tan, Gray	
8' x 200' (2.4 x 61 m)	White	8' x 200' (2.4 x 61 m)	White	
10' x 100' (3.0 x 30.5 m)	White, Tan, Gray	10' x 100' (3.0 x 30.5 m)	White, Tan, Gray	
10' x 200' (3.0 x 61 m)	White	10' x 200' (3.0 x 61 m)	White	
12' 4" x 100' (3.8 x 30.5 m)	White, Tan, Gray	12' 4" x 100' (3.8 x 30.5 m)	White, Tan, Gray	
12' 4" x 200' (3.8 x 61 m)	White	12' 4" x 200' (3.8 x 61 m)	White	

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

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