

Technical Information Sheet

	UltraPly™ TPO XR Mer	UltraPly™ TPO XR Membrane		
	Item Description	Item Number		
	UltraPly TPO XR 100 (45 mil)			
Image Coming Soon	 White Membrane 	W56TXRM3099		
5 5	Tan HR Membrane	W56TXRLT099		
	 Gray Membrane 	W56TXRGM099		
	UltraPly TPO XR 115 (60 mil)			
	 White Membrane 	W56TXR3M699		
	Tan HR Membrane	W56TXRLM699		
	 Gray Membrane 	W56TXRGM699		
	Meets or exceeds ASTM D 6878			

Description

Elevate UltraPly TPO XR Membrane is a flexible Thermoplastic Polyolefin (TPO) roofing membrane that is produced with polyester weft-inserted reinforcement and an 8-ounce polyester fleece backing. UltraPly TPO XR Membrane meets or exceeds all requirements for ASTM D 6878 Specification. This heat weldable UltraPly TPO membrane is available in 45 mil (1.14 mm) and 60 mil (1.52 mm) thicknesses. This membrane is ideal for a variety of new or re-roofing 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. UltraPly TPO XR membrane may be fully adhered using Elevate XR Bonding Adhesive, I.S.O.Spray[™] R Insulation Adhesive, Jet Bond Spray Adhesive or hot asphalt; or adhered in adhesive beads using XR Stick[™] Adhesive; or adhered in adhesive beads or spatter pattern using Twin Jet. UltraPly TPO XR Membrane can also be mechanically attached.

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

- Review 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 XR Membrane.

LEED® Information

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



Typical Properties (Meets or exceeds ASTM D 6878 Specification)					
Properties	Test Method	Performance Minimum	Typical Performance XR 100: 45 mil	Typical Performance XR 115: 60 mil	
Overall Thickness (Thickness Above Fleece)	D 751	0.039" (1.0 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 (F	Retained Values) ASTM	D 573-5376 h (224 day	s 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%	
Weather Resistance*	G 155	10,800 kJ/m ² 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				
Dynamic Puncture Resistance MD	D 5635		Pass (60 J)	Pass (65 J)	
Dynamic Puncture Resistance CD	D 5635		Pass (55 J)	Pass (65 J)	

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Typical Properties Continued (Meets or exceeds ASTM D 6878 Specification)				
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 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 Rating Council (CRRC): Values: Initial / 3 year	White	Light Tan (HR)	Gray
Solar Reflectance	0.80 / 0.70	0.73 / 0.66	0.34 / 0.34
Thermal Emittance	0.78 / 0.81	0.90 / 0.91	0.89 / 0.88
Solar Reflectance Index (SRI)	97 / 84	90 / 81	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: TPO XR 100 – 0.045" (1.14 mm) Membrane Weight: 0.27 lb/ft² (1.3 kg/m²)		Membrane Thickness: TPO XR 115 – 0.060" (1.52 mm) Membrane Weight: 0.32 lb/ft² (1.6 kg/m²)		
Available Sizes	Available Colors	Available Sizes	Available Colors	
10' x 100' (3.0 m x 30.5 m)	White, Tan, Gray	10' x 100' (3.0 m x 30.5 m)	White, Tan, Gray	

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

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