UltraPly™ TPO Platinum™ Membrane

Item Description	Item Number
1 Roll	Various

Product Information

Description:

Firestone UltraPly™ TPO Platinum™ membrane is a flexible, 0.080" (2.03 mm) thick, Thermoplastic Polyolefin (TPO) roofing membrane. It is reinforced with a polyester, weft-inserted scrim. This heat weldable TPO Platinum membrane is available in 0.080" (2.03 mm) thickness and widths up to 12' 4" (3.8 m). Firestone 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 roughened 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. Firestone 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 the UltraPly TPO Platinum Roofing System in accordance with current Firestone 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:

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

LEED® Information:

Post Consumer Recycled Content:	0%
Pre Consumer Recycled Content:	15%
Manufacturing Location:	Wellford, SC Tuscumbia, AL

CCMC 13348-R

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Product Sizes

Membrane Thickness: 0.080" (2.03 mm)
Membrane Weight: 0.42 lb/ft^2 (2.1 kg/m^2)

Available Sizes		Available Colors
5' x 100'	(1.5 x 30.5 m)	White, Tan, Gray
6' 2" x 100'	(1.9 x 30.5 m)	White
8' x 100'	(2.4 x 30.5 m)	White, Tan, Gray
10' x 100'	(3.0 x 30.5 m)	White, Tan, Gray
12' 4" x 100'	(3.8 x 30.5 m)	White

Physical Properties

Property	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 ºF (-40 ºC)	Pass
Ozone Resistance, No Cracks:	D 1149	Pass	Pass
Properties After Heat Aging (Retained Values) (ASTM D 573 670 h 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, 80 °C Black Panel, no cracking, crazing when wrapped around a 3" mandrel and inspected at 7X magnification::	G 155	10,800 kJ/m^2 Minimum	> 20,160 kJ/m^2
Puncture Resistance:	FTM 101C, Method 2031	_____	450 lbf (2,002 N)
Dynamic Puncture Resistance MD:	D 5635	_____	Pass (60 J)
Dynamic Puncture Resistance CD:	D 5635	_____	Pass (60 J)
Static Puncture Resistance:	D 5602	_____	Pass (25 kg)

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Radiative Properties

Cool Roof Rating Council (CRRC): Initial / 3 yr	White	Tan	Gray
Solar Reflectance	0.79 / 0.68	0.61 / 0.55	0.34 / Pending
Thermal Emittance	0.85 / 0.83	0.81 / 0.84	0.89 / Pending
Solar Reflectance Index (SRI)	98 / 81	71 / 63	37 / Pending
Rated Product ID	0008		
Licensed Manufacturer ID	0608		
Classification	Production Line		
ENERGY STAR®: Initial / 3 yr	**White**	**Tan**	
Solar Reflectance	0.79 / 0.78*	0.60 / 0.54	
Thermal Emittance	0.85	0.81	
* White membrane sample cleaned prior to age test.			
LEED®	**White**	**Tan**	**Gray**
Solar Reflectance – ASTM E 903	0.81	0.63	0.37
Thermal Emittance – ASTM E 408	0.95	0.95	0.95
Solar Reflectance Index (SRI) – ASTM E 1980	102	77	43

ENERGY STAR is only valid in the United States

Please contact your Firestone Roof Systems Advisor at 1-800-428-4511 for further information.

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