

TECHNICAL INFORMATION SHEET

UltraPly™ TPO Flex Adhered

Item Description

10' x 100' (3.0 m x 30.5 m) White (60 mil, 1.52 mm)

Item Number

W565TPF3699



Product Information

Description:

Firestone UltraPly TPO Flex Adhered is a flexible Thermoplastic Polyolefin roofing membrane produced with polyester weft-inserted reinforcement designed specifically for adhered installations. UltraPly TPO Flex Adhered membrane meets or exceeds all requirements for ASTM D 6878 Specification. This reflective, heat weldable TPO membrane is available in 60 mil (1.52 mm) thickness and is suitable for a variety of low-slope adhered 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 roughened surfaces that can damage the membrane shall be repaired as specified to offer a smooth substrate.
3. All surface voids greater than ¼" (6.3 mm) wide shall be properly filled with an acceptable fill material.
4. Firestone UltraPly TPO Flex Adhered membrane is installed as a continuous roofing or waterproofing layer on the roof. Rolls are overlapped (side and end laps) prior to heat welding of the seam areas.
5. Install the UltraPly TPO Flex Adhered Roofing System in accordance with current Firestone UltraPly TPO adhered 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 your Firestone Technical Services Advisor at 1-800-428-4511 for specific recommendations regarding chemical or waste product compatibility with Firestone UltraPly Flex Adhered TPO Membrane.

LEED® Information:

Post-Consumer Recycled Content: 0%

Post Industrial Recycled Content: 15%

Manufacturing Location: Tuscumbia, AL

NOTE: LEED® is a registered trademark of the U.S. Green Building Council.



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Typical Properties (Meets or exceeds ASTM D 6878 Specification)

Property	ASTM Standard	Performance Minimum	Typical Performance - 60 mil
Overall Thickness:	D 751	0.039" (1 mm)	0.060" (1.52 mm) ± 10%
Coating over Scrim:	D 7635	0.015" (0.38 mm)	0.020" (0.53 mm)
Breaking Strength:	D 751 (Grab Method)	220 lbf (979 N)	220 lbf (979 N)
Elongation of Reinforcement Break:	D 751 (Grab Method)	15%	15%
Tearing Strength:	D 751	55 lbf (245 N)	55 lbf min.
Brittleness Point:	D 2137	-58 °F (-50 °C)	-58 °F (-50 °C)
Ozone Resistance, No Cracks:	D 1149	Pass (No Cracks)	Pass (No Cracks)
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, 176 °F (80 °C) Black Panel, no cracking, crazing when wrapped around a 3" (76 mm) mandrel and inspected at 7X magnification:	G 155	10,080 kJ/m ² Minimum	
Puncture Resistance:	FTM 101C, Method 2031	---	
Dynamic Puncture Resistance MD:	D 5635	---	
Dynamic Puncture Resistance CD:	D 5635	---	
Static Puncture Resistance:	D 5602	---	
Air Permeance (Material):	E 2178*	< 0.004 ft ³ /ft ² (0.02 L/(s*m ²))	Pass

*The ASTM 2178 values listed are for the air permeance of the UltraPly TPO Membrane component only. For use of the product as a component in an air barrier assembly, please consult your Firestone Technical Services Advisor, Code Agency or Authority having Jurisdiction (AHJ) for the acceptable air barrier assembly details.

Product Data

Membrane Thickness:	0.060" (1.52 mm)
Membrane Weight:	0.384 lb/ft ² (1.87 kg/m ²)
Available Size	Available Color
10' x 100' (3.0 m x 30.5 m)	White

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Radiative Properties

Cool Roof Rating Council (CRRC):	Initial / 3 year simulated
Solar Reflectance	0.80 / 0.73
Thermal Emittance	0.90 / 0.90
Solar Reflectance Index (SRI)	100 / 90
Rated Product ID	0058
Licensed Manufacturer ID	0608
Classification	Production Line

Please contact Firestone Technical Services at 1-800-428-4511 for further information.

This sheet is meant to highlight Firestone products and specifications and is subject to change without notice. Firestone takes responsibility for furnishing quality materials which meet published Firestone product specifications or other technical documents, subject to normal roof manufacturing tolerances. Neither Firestone nor its representatives practice architecture. Firestone offers no opinion on and expressly disclaims any responsibility for the soundness of any structure. Firestone 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 Firestone representative is authorized to vary this disclaimer.