

TECHNICAL INFORMATION SHEET

Firestone PVC

Item Description

1 Roll - 50 mil (5' X 100') White
 1 Roll - 50 mil (10' X 100') White
 1 Roll - 60 mil (5' X 100') White
 1 Roll - 60 mil (10' X 100') White
 1 Roll - 80 mil (5' X 65') White
 1 Roll - 80 mil (10' X 65') White

Item Number

W56PMW50510
 W56PMW51010
 W56PMW60510
 W56PMW61010
 W56PMW80565
 W56PMW81065



Meets or exceeds ASTM D 4434

Code approvals pending

Product Information

Description:

Firestone PVC is a flexible Thermoplastic Polyvinyl Chloride roofing membrane that is produced with polyester weft-inserted reinforcement. Firestone PVC membrane meets or exceeds all requirements for ASTM D 4434 Specification. This heat weldable PVC membrane is available in 50 mil (1.27 mm), 60 mil (1.52 mm) and 80 mil (2.03 mm) thicknesses and 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" (6.3 mm) wide shall be properly filled with an acceptable fill material.
4. Firestone PVC 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 Firestone PVC Roofing System in accordance with current Firestone PVC specifications, details and workmanship requirements.

Storage:

- Store material away from direct sun light, sources of physical damage or chemical contamination.
- 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:

- Exercise caution when lifting, moving, transporting, storing or handling membrane rolls to avoid sources of punctures and possible physical damage.
- Contact your Firestone Technical Advisor at 1-800-428-4511 for specific recommendations regarding chemical or waste product compatibility with Firestone PVC membrane.

LEED® Information:

Post-Consumer Recycled Content: 0%
 Pre-Consumer Recycled Content: 0%
 Manufacturing Location: Hillside, NJ

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



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Typical Properties (Meets or exceeds ASTM D 4434 Specification)

Property	ASTM Standard	ASTM Performance Minimum	Typical Performance 50 mil	Typical Performance 60 mil	Typical Performance 80 mil
Overall Thickness	D 751	0.045" (1.14 mm)	0.050" (1.27 mm) ± 10%	0.060" (1.52 mm) ± 10%	0.080" (2.03 mm) ± 10%
Thickness over Scrim	D 7635	0.016" (0.40 mm)	≥ 0.019" (0.48 mm)	≥ 0.024" (0.61 mm)	≥ 0.031" (0.78 mm)
Breaking Strength	D 751 Grab Method	200 lbf (889 N)	> 240 lbf (1,067 N)	> 340 lbf (1,512 N)	> 365 lbf (1,623 N)
Elongation of Reinforcement Break	D 751 Grab Method	15%	> 25%	> 25%	> 25%
Tearing Strength	D 751 B-Tongue	45 lbf (200 N)	> 45 lbf (200 N)	> 55 lbf (244 N)	> 70 lbf (311 N)
Low Temperature Bend	D 2136	-40 °F (-40 °C)	Pass	Pass	Pass
Linear dimensional change	D 1204 6 h at 80 ± 1 °C (176 ± 2 °F) - Linear dimensional change, max, %	± 0.5% maximum	< 0.5%	< 0.5%	< 0.5%
Water Absorption	D 570 168 ± 1 h at 70 ± 1 °C (158 ± 2 °F)	± 3% maximum	< 3%	< 3%	< 3%
Accelerated Weathering	G 155	5000 h minimum	> 5000 h	> 5000 h	> 5000 h
Dynamic Puncture Resistance	D 5635 Type III	Energy level of 20J minimum	Pass	Pass	Pass
Static Puncture Resistance	D 5602 at 23 ± 1 °C (73 ± 2 °F)	33 lbf (15 kg) minimum	Pass	Pass	Pass
Retention of Properties After Heat Aging					
Heat Aging—Practice D3045 at 80 ± 1 °C (176 ± 2 °F) for 56 days ± 1 h					
Breaking Strength	D 751, Grab Method	90% minimum	> 90%	> 90%	> 90%
Elongation at Break	D 751, Grab Method	90% minimum	> 90%	> 90%	> 90%

For use of the product as a component in an air barrier assembly, please consult the Designer / Architect, Code Agency or Authority having Jurisdiction (AHJ) for the acceptable air barrier assembly details and its installation into the building envelope. Additional roof system securement enhancements may be required.

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White Firestone PVC reinforce membrane product sizes:

Nominal Thickness	Part #	Width	Length	Weight	Shipping Weight
50 mil	W56 PMW 50510	5' (1.52 m)	100' (30.5 m)	0.34 lb/ ft ² (1.66 kg/m ²)	≤ 172 lb (78 kg)
50 mil	W56 PMW 51010	10' (3.05 m)	100' (30.5 m)		≤ 347 lb (157 kg)
60 mil	W56 PMW 60510	5' (1.52 m)	100' (30.5 m)	0.41 lb/ ft ² (2.0 kg/m ²)	≤ 210 lb (95 kg)
60 mil	W56 PMW 61010	10' (3.05 m)	100' (30.5 m)		≤ 420 lb (190 kg)
80 mil	W56 PMW 80565	5' (1.52 m)	65' (19.8 m)	0.54 lb/ ft ² (2.6 kg/m ²)	≤ 177 lb (80 kg)
80 mil	W56 PMW 81065	10' (3.05 m)	65' (19.8 m)		≤ 355 lb (161 kg)

Radiative Properties

Cool Roof Rating Council (CRRC): Initial / 3 yr	White
Solar Reflectance	0.86 / 0.73
Thermal Emittance	0.87 / 0.88
Solar Reflectance Index (SRI)	108 / 90
Rated Product ID	0608 - 0059
Licensed Manufacturer ID	0608
Classification	Production Line
ENERGY STAR®: Initial / 3 yr	White
Solar Reflectance	0.86 / 0.73



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

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