

JM PVC FB-80 mil

Fleece Backed Thermoplastic Polyvinyl Chloride Membrane

Meets the requirements of ASTM D 4434, Type III

Features and Components

Advanced Solid Phase Polymer Formulation: Using the optimal amount of Elvaloy®* KEE (Ketone Ethylene Ester) polymer to: ensure plasticizer retention, extend roof life (exceeded 40,000 hours of accelerated weathering testing - ASTM G 154 requires 5,000 hours), and to reduce maintenance costs.

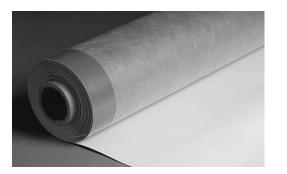
Patented Aramid-Reinforced Edge: Aramid fiber is woven into the fastening side of PVC membrane.

Spunbond 3.8 oz. Polyester Fleece Back Mat: Interlocking, multiple-layer, uniformly arranged continuous filament strands are needle punched with thousands of barbed needles, creating an extremely durable, strong yet light and flexible protection layer.

Non-wicking Reinforced Polyester Scrim: Our fully integrated manufacturing process adds tensile strength and toughness. Due to the non-wicking edge sealant is not required.

Excellent Chemical Resistance: JM PVC is inherently resistant to oils, air conditioning coolants, fuels and grease.

Energy Savings: The White, Grey ES and Sandstone ES provide exceptional reflectivity and emissivity for energy savings.



Component M Membrane Sinale Plv



Colors*

Grey	Grey ES	Sandstone	Sandstone ES		
White	Charcoal				

All colors not available as standard stocked items in all size configurations. Please call for minimums and lead times.

System Compatibility This product may be used as a component in the following systems. Please reference product application for specific installation methods and information.

Ply	BUR	Α	PP	SBS		Ply	TPO			PVC			EPDM						
ltii	HA	CA	HW	HA	CA	HW	SA	MF	gle	MF	AD	SA	IW	MF	AD	IW	MF	AD	BA
ž	Compatible with the selected multi-ply systems above						Sin		Com	patible	with th	e select	ed singl	e ply sy	stems a	above			

Key: HA = Hot Applied CA = Cold Applied HW = Heat Weldable SA = Self Adhered MF = Mechanically Fastened IW = Induction Weld BA = Ballasted AD = Adhered *Can be used as a cap sheet in BUR and SBS systems when adhered using hot asphalt

Energy and the Environment

Standard Reflectivity Emissivity								
		Initial	0.86	0.86				
	White	3 Yr. Aged	0.70	0.82				
CRRC®	Conditions FC	Initial	0.73	0.83				
CRRC	Sandstone ES	3 Yr. Aged	0.58	0.82				
	Grey ES	Initial	0.67	0.85				
	Grey ES	3 Yr. Aged	0.54	0.82				
CA Title 24	White	Pass	0.86	0.86				
	White	Initial	108					
	vviiite	3 Yr. Aged	84					
LEED [®]	Sandstone ES	Initial	89					
(SRI)	Sallustolle ES	3 Yr. Aged	67					
	Grey ES	Initial	80					
	GIEY ES	3 Yr. Aged	61					
Recycled	Post-cons	umer	0%					
Content	Post-indu	strial	0% - 10%					

The LEED® Solar Reflectance Index (SRI) is calculated per ASTM E1980.

Peak Advantage® Guarantee Information

Enhanced guarantees are now available on certain systems for wind and puncture. Consult your local sales representative for more information and for specific guarantee terms and costs.

Product	Guarantee Term
When used in most JM PVC Systems**	Up to 30 years
L	

* Flyalov® is a registered trademark of Dow

**Contact JM Technical Services for specific systems.

Installation/Application







Hot Asphalt

Mechanically

Hot Air Weld

Refer to JM PVC application guides and detail drawings for instructions.

Hot asphalt application with 12' FB requires two hot installers to ensure the asphalt stays warm enough to receive the fleece.

Packaging and Dimensions

Sizes	Coverage				
6.33' x 75' (1.93 m x 22.86 m)	474.75 ft² (44.11 m²)				
12' x 75' (3.66 m x 22.86 m) (white only)	900 ft² (83.61 m²) (white only)				
Widths	6.33'	12'			
Rolls per Pallet	10	7			
Pallet Weight - Ib (kg)	2740 (1242.8)	3843 (1743.2)			
Pallets per Truck*	14 8				
Producing Locations	lucing Locations Pawtucket, RI and Lancaste				

*Assumes 48' flatbed truck and does not reflect pallets of accessories or impact of mixed sizes.

Codes and Approvals

OVED







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Tested Physical Properties

Phys	ical Properties	ASTM Test Method	ASTM Requirements	JM PVC FB – 80 mil	
	Breaking Strength, min, lbf (N)	D 751	200 (890)	511 (2,273)	
	Elongation at Break, min %	D 751	15	42	
Strength	Tearing Strength, min, lbf (N)	D 751	45 (200)	84.6 (376)	
Stre	Seam Strength, min, % of breaking strength	D 751	75	93	
	Static Puncture Resistance, lbf (kg)	D 5602	Pass @ 33 (15)	Pass	
	Dynamic Puncture Resistance, J	D 5635	Pass @ 20	Pass	
	Thickness, min, in.	D 751	+/- 10% from Nominal	0.080 (Nominal)	
Longevity	Thickness Over Scrim, min, in.	D 7635	0.016	0.038	
Long	Water Absorption, max, %	D 570 modified	3.0	0.41	
	Low Temperature Bend, °F	D 2136	No Cracks @ -40°F	Pass	
_ 9	Properties after Heat Aging, min	D 3045	56 days @ 176°F		
Heat Aged Performance	Breaking Strength, % (after aging)	D 751	90	92	
Heat	Elongation, % (after aging)	D 751	90	94	
_ c	Linear Dimensional Change, max, % (after 6 hrs @ 176°F)	D 1204	0.5	0.2	
	Accelerated Weathering, min	G 151 & G 154	5,000 hrs		
nce	Cracking (@ 7x magnification)	G 154	No Cracks	Pass @ >40,000 hrs	
Weather Performance	Discoloration (by observation)	G 154	Negligible	Negligible	
Perfe	Crazing (@ 7x magnification)	G 154	No Crazing	Pass @ >40,000 hrs	
	Moisture Vapor Transmission	ASTM E 96, Proc B, Method A		0.01 g/m² per 24 hrs	

Technical specifications as shown in this literature are intended to be used as general guidelines only. Please refer to the Safety Data Sheet and product label prior to using this product. The Safety Data Sheet is available by calling (800) 922-5922 or on the web at www.jm.com/roofing. The physical and chemical properties of the product listed herein represent typical, average values obtained in accordance with accepted test methods and are subject to normal manufacturing variations. They are supplied as a technical service and are subject to change without notice. Check with the regional sales representative nearest you for current information.

All Johns Manville products are sold subject to Johns Manville's standard Terms and Conditions, which includes a Limited Warranty and Limitation of Remedy. For a copy of the Johns Manville standard Terms and Conditions or for information on other Johns Manville roofing products and systems, visit www. jm.com/terms-conditions.