JM PVC - 50 mil

Thermoplastic Polyvinyl Chloride Membrane

Meets the requirements of ASTM D 4434, Type III

Features and Components

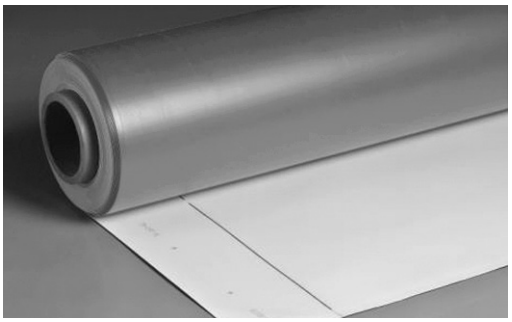
Advanced Solid Phase Polymer Formulation: Using the optimal amount of DuPont™ Elvaloy® KEE (Ketone Ethylene Ester) polymer to: ensure plasticizer retention, extend roof life *(35,000 hours of accelerated weathering testing - ASTM G 154 requires 5,000 hours)*, and to reduce maintenance costs.

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

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.

JM Membranes are designed with a cap, core, and bottom in order to utilize recycled content. The cap, or top-side is produced with non-recycled content, and should always be install facing up. The cap is identified by the lap line and production code.



Component: **M** Membrane

Single Ply

Colors

White

System Compatibility

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

Multi-Ply								
BUR	APP			SBS				
HA	CA	HW	HA	CA	HW	SA	MF	
Compatible with the selected Multi-Ply systems above								

Single Ply										
TPO				PVC			EPDM		
MF	AD	SA	IW	MF	AD	IW	MF	AD	BA
Compatible with the selected Single Ply systems above										

Key: **HA** = Hot Applied **CA** = Cold Applied **HW** = Heat Weldable **SA** = Self Adhered **MF** = Mechanically Fastened **IW** = Induction Weld **BA** = Ballasted **AD** = Adhered

Energy and the Environment

Standard			Reflectivity	Emissivity
CRRC®	White	Initial	0.86	0.86
		3 Yr. Aged	0.70	0.82
CA Title 24	White	Pass	0.86	0.86
ENERGY STAR®	White	Initial	0.86	0.86
		3 Yr. Aged	0.70	
LEED® (SRI)	White	Initial	108	
		3 Yr. Aged	84	
Recycled Content	Post-consumer		0%	
	Post-industrial		0% - 10%	

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

Peak Advantage® Guarantee Information

Product Thickness	Terms
50 mil	5, 10 or 15 yr NDL

Guarantee terms are for mechanically fastened and adhered systems.

Codes and Approvals

CLASSIFIED UL US

FM APPROVED

MIAMI-DADE COUNTY APPROVED
Miami-Dade County Product Control Approved

Installation/Application

Adhered | Mechanically Fastened | Hot Air Weld

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

Packaging and Dimensions

Size	Coverage			
3.25' x 100' (1 m x 30.48 m)	325 ft² (30.19 m²)			
5' x 100' (1.52 m x 30.48 m)	500 ft² (46.45 m²)			
6.5' x 100' (1.98 m x 30.48 m)	650 ft² (60.38 m²)			
10' x 100' (3.05 m x 30.48 m)	1000 ft² (92.9 m²)			
Widths	3.25'	5'	6.5'	10'
Rolls per Pallet	24	9	12	12
Pallet Weight - lb (kg)	2592 (1175.7)	1485 (673.6)	2660 (1206.6)	4225 (1916.4)
Pallets per Truck*	17	8	17	8
Producing Locations	Pawtucket, RI and Lancaster, SC			

*Assumes 48' flatbed truck.

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.

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Tested Physical Properties

Physical Properties		ASTM Test Method	ASTM Requirements	JM PVC – 50 mil
Strength	Breaking Strength, min, lb/in. (N)	D 751	200 (890)	342 (1,521)
	Elongation at Break, min %	D 751	15	27
	Tearing Strength, min, lbf/in. (N)	D 751	45 (200)	88.6 (394)
	Seam Strength, min, % of breaking strength	D 751	75	100
	Static Puncture Resistance, lbf (kg)	D 5602	Pass @ 33 (15)	Pass
	Dynamic Puncture Resistance, J	D 5635	Pass @ 20	Pass
Longevity	Thickness, min, in.	D 751	+/- 10% from Nominal	0.050 (Nominal)
	Thickness Over Scrim, min, in.	D 7635	0.016	0.022
	Water Absorption, max, %	D 570 modified	3.0	0.13
	Low Temperature Bend, °F	D 2136	No Cracks @ -40°F	Pass
Heat Aged Performance	Properties after Heat Aging, min	D 3045	56 days @ 176°F	
	Breaking Strength, % (after aging)	D 751	90	92
	Elongation, % (after aging)	D 751	90	91
	Linear Dimensional Change, max, % (after 6 hrs @ 176°F)	D 1204	0.5	0.19
Weather Performance	Accelerated Weathering, min	G 151 & G 154	5,000 hrs	
	Cracking (@ 7x magnification)	G 154	No Cracks	Pass @ 35,000 hrs
	Discoloration (by observation)	G 154	Negligible	Negligible
	Crazing (@ 7x magnification)	G 154	No Crazing	Pass @ 35,000 hrs
	Moisture Vapor Transmission	ASTM E 96, Proc B, Method A		0.02 g/m^2 per 24 hrs

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