JM PVC-80 MIL

Thermoplastic Polyvinyl Chloride Membrane

Meets the requirements of ASTM D 4434, Type III

Features and Components

Advanced Solid Phase Polymer Formulation: Uses the optimal amount of DuPont™ Elvaloy® KEE (Ketone Ethylene Ester) polymer to: Ensure plasticizer retention; Extend roof life *(exceeds 39,000 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 all full rolls 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.

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

Component
M
Membrane
Single Ply

Colors*

Grey	Grey ES	Sandstone	Sandstone ES
White	Copper Brown	Patina Green	Dark Blue
Evergreen	Charcoal		

* Grey and Sandstone are standard colors and do not require a minimum order but may require extended lead times up to eight weeks. All other colors may be ordered in any sheet size or thickness but are special order and may require the following minimums and lead times:
- 3.25' and 6.5' sheets require 500 square minimum and a six week lead time
- 5' and 10' sheets require 1,000 square minimum and eight week lead time

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	CA	HW	HA	CA	HW	CA	MF
	Do not use in Multi-Ply systems								

Single Ply	TPO		PVC		EPDM		
	MF	FA	MF	FA	MF	FA	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 **FA** = Fully Adhered **BA** = Ballasted

Energy and the Environment

Property		Color		
		White	Grey ES	Sandstone ES
Reflectivity	Initial	0.86	0.67	0.73
	3-Year Aged	0.70	0.54	0.58
Emissivity	Initial	0.86	0.85	0.83
	3-Year Aged	0.82	0.82	0.82
SRI	Initial	108	80	89
	Aged	84	61	67
Recycled Content		Post-consumer: 0%	Post-industrial: 0%-10%	

Note: Solar reflectance tested for Title 24 by CRRC in accordance with ASTM test methods C 1549, E 1918 or E 903. Thermal emittance is measured in accordance with ASTM C 1371. For aged ratings, product samples are exposed for three years at the CRRC Approved Test Farm.

Peak Advantage® Guarantee Information

Product Thickness	Terms
80 mil	5, 10, 15 or 20 yr NDL

Guarantee terms are for mechanically fastened and fully adhered systems.

Codes and Approvals

CLASSIFIED UL C US

FM APPROVED

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

Installation/Application

Fully 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 75' (1 m x 22.86 m)		243.75 ft² (22.65 m²)		
5' x 75' (1.52 m x 22.86 m)		375 ft² (34.84 m²)		
6.5' x 75' (1.98 m x 22.86 m)		487.5 ft² (45.29 m²)		
10' x 75' (3.05 m x 22.86 m)		750 ft² (69.68 m²)		
Widths	3.25'	5'	6.5'	10'
Rolls per Pallet	18	9	9	9
Pallet Weight - lb (kg)	2420 (1097.7)	3847 (1745.0)	2411 (1093.6)	3847 (1745.0)
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 – 80 mil
Strength	Breaking Strength, min, lb/in. (N)	D 751	200 (890)	418 (1,859)
	Elongation at Break, min %	D 751	15	32
	Tearing Strength, min, lbf/in. (N)	D 751	45 (200)	81 (360)
	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	0.080 (Nominal)
	Thickness Over Scrim, min, in.	D 7635	0.016	0.038
	Water Absorption, max, %	D 570 modified	3.0	0.41
	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	97
	Elongation, % (after aging)	D 751	90	90
	Linear Dimensional Change, max, % (after 6 hrs @ 176°F)	D 1204	0.5	0.4
Weather Performance	Accelerated Weathering, min	G 151 & G 154	5,000 hrs	
	Cracking (@ 7x magnification)	G 154	No Cracks	Pass @ >39,000 hrs
	Discoloration (by observation)	G 154	Negligible	Negligible
	Crazing (@ 7x magnification)	G 154	No Crazing	Pass @ >39,000 hrs
	Moisture Vapor Transmission	ASTM E 96, Proc B, Method A		0.01 g/m^2 per 24 hrs

Note: 80 mil MIN products offer a tighter thickness tolerance and will be manufactured no less than 80 mil.

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