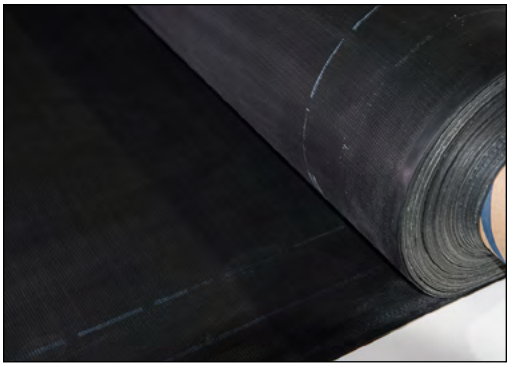
JM EPDM R 45 MIL

Polyester-Reinforced Ethylene Propylene Diene Monomer Membrane

Meets the requirements of ASTM D 4637, Type II



Component: **M** Membrane

Single Ply

Features and Components

Membrane: Cured EPDM (ethylene propylene diene monomer) reinforced with a tough 1,000+ denier polyester mat.

- Thickness over scrim 140% higher than ASTM standard and the highest compared to competitive brands
- Excellent puncture and hail resistance

Fully Extruded: Produces fewer air voids, more uniform thickness and smoother sheets.

Vulcanization Process: Combines two layers of membrane to produce a fully cross-linked monolithic membrane.

Polymer Formulation: Performs in extreme temperature climates and withstands differential movement (elongation).

UV-Stabilization Properties: Offers outstanding ozone and weather resistance delivering one of the longest service lives available.

Technical Expertise: Backed by 30+ years of EPDM experience and installations.

Color

Black

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				Single Ply	TPO		PVC		EPDM		
	HA	CA	CA	HW	HA	CA	HW	SA		MF	FA	MF	FA	MF	FA	BA
	Do not use with Multi-Ply systems									***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	Value
Reflectivity* (ASTM C 1549)	0.06
Emissivity* (ASTM C 1371)	0.88
Post-consumer Recycled Content	0%
Pre-Consumer Recycled Content	0%

*Test methods for reflectivity and emissivity are LEED®- and CRRC®-approved.

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 EPDM Systems*	Up to 15 years

*Contact JM Technical Services for specific systems.

Codes and Approvals

Installation/Application

Ballasted | Fully Adhered | Mechanically Fastened

Refer to JM EPDM Application Guides and Detail Drawings for instructions.

Packaging and Dimensions

Roll Size	10' x 100' (3.05 m x 30.48 m)
Roll Coverage	1000 ft² (92.66 m²)
Extruded in:	Milan, OH

*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.

JM EPDM R 45 MIL

Polyester-Reinforced
Ethylene Propylene Diene Monomer Membrane

Meets the requirements of ASTM D 4637, Type II

Tested Physical Properties

Physical Properties		ASTM Test Method	Standard for ASTM D 4637, Type II	JM EPDM – R 45 mil
Strength	Breaking Strength (lbf)	D 751 A	> = 90	231
	Elongation at Fabric Break, Ultimate (%)	D 751 A	> = 15	MD 31, XMD 33*
	Elongation, Ultimate (%)	D 412	> = 250	429
	Tear Strength (lbf)	D 751 B	> = 10	111
	Dynamic Puncture Resistance, 10J, Type II	D 5635	pass	pass
	Static Puncture Resistance, 55.1 lbf, Type II	D 5602	pass	pass
Longevity	Overall Sheet Thickness (in.)	D 751	+/- 10%	pass
	Thickness Over Scrim, Weathering Side (in.)	D 7635	0.015	0.021
	Brittleness Point (°F)	D 2137	< = -49	pass
	Ozone Resistance	D 1149	pass	pass
	Water Absorption (mass %)	D 471	< = 8	0.6
Heat Aged Performance	Heat Aged 670 hrs @ 240°F	D 573		
	Breaking Strength (lbf)	D 751	> = 80	220
	Elongation, Ultimate (%)	D 412	> = 200	286
	Linear Dimensional Change (%)	D 1204	< ± 1	0.3
Weathering Performance	Weathering Resistance, 5040 KJ/(m2-nm) @ 340 nm	D 4637 / G 151 / G 155		
	Visual Inspection	–	pass	pass

* MD = Machine Direction
XMD = Cross-Machine Direction

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.