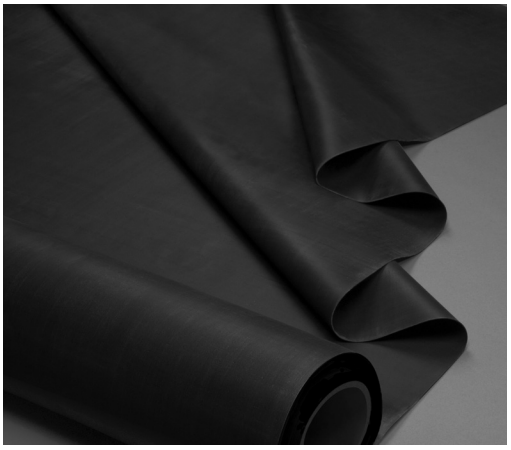
JM EPDM NR 45 MIL

Ethylene Propylene Diene Monomer Membrane

Meets the requirements of ASTM D 4637, Type I



Component
M
Membrane
Single Ply

Features and Components

Membrane: Nonreinforced, cured EPDM (ethylene propylene diene monomer).

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.

Membrane 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			
	HA	CA	CA	HW	HA	CA	HW	SA
	Do not use with 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	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

CLASSIFIED C UL US

FM APPROVED

Installation/Application

Ballasted Fully Adhered

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

Packaging and Dimensions

Roll Size	Roll Coverage
10' x 50' (3.05 m x 15.24 m)	500 ft² (46.45 m²)
10' x 100' (3.05 m x 30.48 m)	1000 ft² (92.9 m²)
20' x 50' (6.1 m x 15.24 m)	1000 ft² (92.9 m²)
20' x 100' (6.1 m x 30.48 m)	2000 ft² (185.8 m²)
30' x 100' (9.14 m x 30.48 m)	3000 ft² (278.71 m²)
40' x 100' (12.19 m x 30.48 m)	4000 ft² (371.9 m²)
Extruded in:	Milan, OH

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	Standard for ASTM D 4637, Type I	JM EPDM – NR 45 mil
Strength	Tensile Strength (psi)	D 412	> = 1305	1686
	Elongation, Ultimate (%)	D 412	> = 300	451
	Tensile Set (%)	D 412	< = 10	0.4
	Tear Resistance (lbf/in.)	D 624	> = 150	185
	Dynamic Puncture Resistance, 5J, Type I	D 5635	pass	pass
	Static Puncture Resistance, 44.1 lbf, Type I	D 5602	pass	pass
Longevity	Overall Sheet Thickness (in.)	D 751	+/- 10%	pass
	Brittleness Point (°F)	D 2137	< = -49	pass
	Ozone Resistance	D 1149	pass	pass
	Water Absorption (mass %)	D 471	< = 8	0.55
Heat Aged Performance	Heat Aged 670 hrs @ 240°F	D 573		
	Tensile Strength (psi)	D 412	> = 1205	1693
	Elongation, Ultimate (%)	D 412	> = 200	287
	Tear Resistance (lbf/in.)	D 624	> = 125	149
	Linear Dimensional Change (%)	D 1204	< +/- 1	0.4
Weathering Performance	Weathering Resistance, 5040 KJ/(m2-nm) @ 340 nm	D 4637 / G 151 / G 155		
	Visual Inspection	–	pass	pass
	Elongation, Ultimate (%)	D 412	> = 200	449

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