



57460 Dewitt Street ▪ Elkhart, Indiana 46517-1078
 Phone (574) 293-9096 ▪ Fax (574) 294-3450
 800-628-2957 ▪ Web site: www.roofingproductsint.com



ROYAL EDGE NON-REINFORCED FIRE RETARDANT EPDM MEMBRANE TECHNICAL DATA SHEET

PRODUCT DATA

DESCRIPTION:

RPI Royal Edge Fire Rated EPDM membrane is a non-reinforced fire retardant cured single -ply roofing is a cured single-ply roofing membrane that can be used in fully adhered, mechanically attached, and ballasted systems.

PREPARATION OF SUBSTRATES:

1. Substrates must be clean, dry, smooth, and free of sharp edges, fins, loose or foreign materials, oil, grease, and other materials that may damage the membrane.
2. All roughened surfaces that can damage the membrane shall be repaired as specified to offer a smooth substrate.
3. All surface voids greater than 1/4" (6.3 mm) wide shall be properly filled with an acceptable fill material.

METHOD OF APPLICATION:

1. RPI Royal Edge non-reinforced Fired Rated EPDM EPDM membrane must be installed in accordance RPI Specifications, details, and installation requirements.

PACKAGING:

Thickness	Widths	Lengths	Weight
.045" FR (1.1mm)	7-1/2 ft*	100 ft	0.31 lb/sf
	9 ft	100 ft	
.060" FR (1.5 mm)	7-1/2 ft* (2.3 m)	100 ft	0.42 lb/sf (2.
	9 ft (2.7 m)	100 ft (30.5 m)	
.045" FR (1.1 mm)	10 ft (3.05 m)	50 ft (15.25 m)	0.31 lb/sf
	20 ft (6.10 m)	100 ft (30.5 m)	
.060" FR (1.5 mm)	10 ft (3.05 m)	50 ft	0.42 lb/sf
	20 ft (6.10 m)	100 ft	

STORAGE:

1. Store away from sources of punctures and physical damage.
2. Assure that structural decking will support the loads incurred by material when stored on rooftop. The deck load limitations should be specified by the project designer.
3. Store away from ignition sources as membrane will burn when exposed to open flame.

PRECAUTIONS:

1. Take care when moving, transporting, handling, etc. to avoid sources of punctures and physical damage.
2. Isolate waste products, such as petroleum products, greases, oils (mineral and vegetable) and animal fats from the Royal Edge EPDM membrane. Contact RPI Technical for more specific installation recommendations.
3. Refer to Material Safety Data Sheets (MSDS) for safety information.

LEED INFORMATION:

Post Consumer Recycled Content: 0%
 Post Industrial Recycled Content: 0%
 Manufacturing Locations: Prescott, AR

PHYSICAL PROPERTIES

Property	Test Method	Minimum ASTM Performance	Typical Values
Thickness, min			
Sheet-overall	ASTM D 412	0.040 in (1.016 mm)	0.040 in (1.016 mm)
Tensile strength, min	ASTM D 412 (Die C)	1305 psi (9.0 MPa)	1465 psi (10.1 MPa)
Elongation, ultimate, min	ASTM D 412 (Die C)	300%	350%
Tensile set, max	ASTM D 412 Method A, (Die C)	10%	5%
Tear resistance, min	ASTM D 624 (Die C)	150 lbf/in (26.3 kN/m)	190 lbf/in (33.2 kN/m)
Brittleness point, max	ASTM D 2137	-49° F (-45° C)	-62° F (-52° C)
Ozone resistance, no cracks	ASTM D 1149	pass	pass
Heat Aging:	ASTM D 573		
Tensile strength, min	ASTM D 412 (Die C)	1205 psi (8.3 MPa)	1450 psi (10.0 MPa)
Elongation, ultimate, min	ASTM D 412 (Die C)	200%	225%
Tear resistance, min	ASTM D 624 (Die C)	125 lbf/in (21.9 kN/m)	180 lbf/in (31.5 kN/m)
Linear dimensional change, max	ASTM D 1204	±1.0 %	-0.5%
Water absorption, max, mass %	ASTM D 471	+8, -2%	+1.8%
Factory seam strength, min	ASTM D 816, Method B (Modified)	50 lbf/in (8.8 kN/m) or sheet failure	sheet failure
Weather resistance:			
Visual inspection	ASTM D 518	pass	pass
PRFSE, min	ASTM D 518	30%	63%
Elongation, ultimate, min	ASTM D 412 (Die C)	200%	225%

RPI Royal Edge membrane meets or exceeds the minimum requirements set forth by ASTM D 4637 for Type I non-reinforced EPDM single-ply roofing membranes.



Information stated on this Roofing Products International, Inc. Data Sheet is intended to provide basic guidance as to storage, application, coverage, shipping, and other product data. Information is subject to change without notice. For more information regarding this product, refer to RPI MSDS, and the RPI Specification Manual. As neither Roofing Products International, Inc. nor its representatives practice structural engineering or architecture, RPI disclaims any responsibility and offers no opinion as to the structural soundness of any structure on which its products may be applied. The building owner should obtain the services of a competent structural engineer before proceeding. RPI accepts no responsibility for any structural failure or resultant damages. No Roofing Products International, Inc. representative is authorized to vary this disclaimer.



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Sales/Technical 1-800-628-2957 Fax: 574-294-3450