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## RPI ROYAL EDGE REINFORCED EPDM MEMBRANE TECHNICAL DATA SHEET

### PRODUCT DATA

PROPERTIES	ASTM TEST METHOD	ASTM 6878 MINIMUM	TYPICAL VALUES
THICKNESS MINIMUM OVERALL MEMBRANE	ASTM D 751	0.040 " (1.016 mm)	0.040" (1.016 mm)
COATING OVER SCRIM	ASTM D 751	0.015 (0.381 mm)	0.015" (0.381 mm)
BREAKING STRENGTH, min	ASTM D 751 (Grab Method)	90 lbf (400N)	240 lbf (1068 N)
ELONGATION, min.	ASTM D 412 (Die C)	250 %	475 %
TEAR STENGTH, min.	ASTM D 751 (Tongue Tear)	10 lbf/in (45 N)	60 lbf/in (267 N)
BRITTLENESS TEMP. max	ASTM D 2137	-49° F (-45° C)	-65° F (-54° C)
OZONE RESISTANCE no cracks	ASTM D 1149	pass	pass
HEAT AGING:	ASTM D 573		
Elongation, max, min	ASTM D 412 (Die C)	200 %	300 %
Breaking Strength	ASTM D 751 (Grab Method)	80 lbf (356 N)	275 lbf (1223 N)
Linear Dimensional Change, max	ASTM D 1204	± 1.0 %	- 0.7 %
Water Absorption, max, mass %	ASTM D 471	+ 8, -2 %	+1.8 %
WEATHER RESISTANCE:			
Visual Inspection	ASTM D 518	pass	pass

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

#### **DESCRIPTION:**

RPI Royal Edge Reinforced EPDM membrane is a cured EPDM single-ply roofing membrane that incorporates an internally inserted 9 X 9, 1,000 denier polyester weft reinforcing scrim. It can be used in Mechanically Attached, Fully Adhered, and Ballasted Systems.

Available in .045 mil and .060 mil gauge.

#### **APPLICATION INSTRUCTIONS:**

1. All substrates must be dry, clean, and free of debris and loose foreign materials including oils, grease, and other contaminants.  
All surfaces must be smooth and free of sharp and protruding edges.
2. All voids greater than ¼ inch should be filled with an acceptable material.
3. RPI Royal Edge Reinforced EPDM membrane must be installed according to RPI System Specifications.

#### **PACKAGEING:**

<u>Thickness</u>	<u>Widths</u>	<u>Lengths</u>	<u>Weight</u>
.045" (1.1 mm)	7.5 ft. (2.3 m) 10 ft. (3 m)	50 ft., 100 ft. (15.2 m, 30.5 m) 50 ft., 100 ft. (15.2 m, 30.5 m)	0.32 lb/sq. ft.
.060" (1.5 mm )	7.5 ft. (2.3 m) 10 ft. (3 m)	50 ft., 100 ft. (15.2 m, 30.5m) 50 ft., 100 ft. (15.2 m, 30.5m)	0.42 lb/sq. ft.

Contact RPI representative for product availability and shipping/packaging information.

**PRECAUTION:**

1. When moving/transporting, avoid dragging rolls. Do not allow membrane to come into contact with objects that can puncture, cut, or tear the membrane.
2. Prevent contact with products such as oils, animal fats, petroleum products, and grease.
3. Refer to Material Safety Data Sheets (MSDS) for safety information and disposal.

**RECOMMENDED STORAGE:**

1. Protect membrane from puncture and other physical damage.
2. Before stocking/loading rooftop, check existing structure to ensure dead load limitations are not exceeded. Consultation with a structural engineer is recommended.
3. Do not store material near ignition or open flame sources. Material will burn when exposed to open flame.



Membrane for Roofing Systems  
As to an External Fire Exposure Only  
See UL Roofing Materials and Systems Directory  
R10073

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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