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RPI RE-FLEX WHITE EPDM MEMBRANE PHYSICAL PROPERTIES

PROPERTIES	TEST METHOD	MINIMUM ASTM PERFORMANCE	TYPICAL VALUES
THICKNESS OVERALL MEMBRANE	ASTM D 412	0.054in.	0.056 in (1.499 mm)
ELONGATION, min.	ASTM D 412 (Die C)	300 %	468 %
TENSILE STRENGTH, min.	ASTM D 412 (Die C)	1305 psi (9.0 MPa)	1360 psi (9.4 MPa)
TEAR RESISTANCE, min.	ASTM D 624 (Die C)	150 lbf/in (26.3 kN/m)	234 lbf/in (41.0 kN/m)
BRITTLENESS TEMP. max	ASTM D 2137	-49° F (-45° C)	-69° F (-56° C)
OZONE RESISTANCE no cracks	ASTM D 1149	pass	pass
HEAT AGING:	ASTM D 573		
Tensile Strength, min	ASTM 412 (Die C)	1205 psi (8.3 MPa)	1317 psi (9.1 MPa)
Elongation, max, min	ASTM D 412 (Die C)	200 %	325 %
Tear Resistance, min	ASTM D 624 (Die C)	125 lbf/in (21.9 kN/m)	240 lbf/in (42 kN/m)
Linear Dimensional Change, max	ASTM D 1204	± 1.0 %	- 0.50 %
Water Absorption, max, mass %	ASTM D 471	+ 8, -2 %	2.50 %
Factory Seam Strength, min	ASTM D 816, Method B 50 lbf/in (Modified)	(8.8 kN/m) or sheet failure	sheet failure
WEATHER RESISTANCE:			
Visual Inspection	ASTM D 4637	pass	pass
PRFSE, min	ASTM D 4637	30 %	51%
Elongation, max, min	ASTM D 412 (Die C)	200 %	277 %
RPI Re-Flex White EPDM membrane meets or exceeds the minimum requirements set forth by ASTM D 4637, and CGSB 37-GP-52M, for Type 1, Class A, non-reinforced single-ply roofing membranes.			
Cool Roof Rating Council (CRRC)		Compliance	Test Method
Solar Reflectance (Initial)*	0.80	Solar Reflectance (weathered)*	0.72
Thermal Emittance (initial)*	0.84	Thermal Emittance (weathered)*	0.86
Solar Reflectance Index (SRI)	99	SRI **	105
* Values were obtained from independent testing by CRRC. **SRI calculated using USGBC SRI calculator.			

DESCRIPTION:

RPI Re-FlexWhite EPDM is a non-reinforced .060" (1.52 mm), bi-laminate, white on black, cured single-ply membrane used in fully adhered RPI Re-Flex EPDM Systems.

APPLICATION INSTRUCTIONS:

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

PACKAGING:

Thickness	Widths	Lengths	Weight
.060" (1.5 m)	10 ft, 20ft	100 ft.	0.40 lb/sq. ft.

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

PRECAUTIONS:

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.

