Technical Information Sheet

RubberGard™ MAX (Reinforced) EPDM Membrane

Item Description	Item Number
One Roll	Various

DESCRIPTION

RubberGard MAX (Reinforced) EPDM Membrane is an internally reinforced, cured single-ply roofing membrane that features a 9 x 9, 1,000 denier polyester weft inserted reinforcing scrim for increased puncture resistance. It is available in 0.045" (1.1 mm), 0.060" (1.5 mm) and 0.075" (1.9 mm) thicknesses. Designed with fire retardants, RubberGard MAX EPDM Membrane can meet qualification for UL Class A for slopes up to 3″ (76 mm), depending on the roofing assembly.

Packaging

Membrane Thickness	Width*	Length	Weight
0.045" (1.14 mm)	10′ (3.05 m)	100′ (30.5 m)	0.32 lb/ft2 (1.6 kg/m2)
0.060" (1.52 mm)			0.42 lb/ft2 (2.1 kg/m2)
0.075" (1.91 mm)**			0.55 lb/ft2 (2.7 kg/m2)

* No-fold panels

** Please contact your Sales or Customer Service Representative for lead time on 0.075" (1.91 mm) thick membrane.

PRODUCT PREPARATION

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 ¼" (6 mm) wide shall be properly filled with an acceptable fill material.

METHOD OF APPLICATION

RubberGard MAX EPDM Membrane must be installed in accordance with current RubberGard specifications, details and workmanship requirements.

STORAGE

- Store away from sources of punctures and physical damage.
- 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.
- Store away from ignition sources as membrane will burn when exposed to open flame.

PRECAUTIONS

- Review Safety Data Sheets (SDS) prior to use.
- Take care when moving, transporting, handling, etc. to avoid sources of punctures and physical damage.
- Isolate waste products, such as petroleum products, greases, oils (mineral and vegetable) and animal fats from the RubberGard membrane.
- It is important that the side of the sheet imprinted with the direction "This Side Down" be installed in direct contact with the substrate to achieve respective test agency compliance.

LEED® INFORMATION

Post-Consumer Recycled Content: 0%

Post Industrial Recycled Content: 0%

Manufacturing Location: Prescott, AR

NOTE: LEED® is a registered trademark of the U.S. Green Building Council

TYPICAL PROPERTIES (Meets or exceeds ASTM D4637, Type II scrim-reinforced EPDM Single-Ply roofing membranes)

Properties	ASTM Min. Value	Typical Performance		
		45 mil	60 mil	75 mil
Thickness (D412)	1.143 mm +0.178 mm/-0.127 mm (0.045" +0.007"/-0.005")	1.168 mm (0.046")	---	---
	1.52 mm +0.229 mm/-0.152 mm (0.060" +0.009"/-0.006")	---	1.473 mm (0.058")	---
	1.90 mm +0.279 mm/-0.203 mm (0.075" +0.011"/-0.008")	---	---	1.956 mm (0.077")
EPDM Coating over Scrim (D7635)	0.38 mm (0.015")	0.559 mm (0.022")	0.762 mm (0.030")	0.838 mm (0.033")
Breaking Strength (D751, Grab Method)	400 N (90 lbf)	969.7 N (218 lbf)	880.7 N (198 lbf)	1063.1 N (239 lbf)
Dynamic Puncture Resistance @ 10 J (D5635)	Pass	Pass	Pass	Pass

Static Puncture Resistance @ 25 kg (D5602)	Pass	Pass	Pass	Pass
Elongation, Ultimate, min.: % (D412, Die C)	250% Minimum (EPDM only; no scrim)	577%	Pass	Pass
Elongation @ fabric break (ultimate) (D751, Grab Method)	15% MD 15% CD	26.7% MD 35.2% CD	28.0% MD 30.2% CD	27.1% MD 36.3% CD
Tear Strength (D751, B-Tongue Tear)	45 N (10 lbf) Minimum	516.0 N (116 lbf)	516.0 N (116 lbf)	498.2 N (112 lbf)
Brittleness Point (D2137)	-45 °C (-49 °F) Maximum	Pass	Pass	Pass
Ozone Resistance, no cracks (D1149)	Pass	Pass	Pass	Pass
Breaking Strength after Heat Aging*	356 N (80 lbf)	1072.0 N (241 lbf)	Pass	Pass
Elongation, Ultimate after Heat Aging*	200% Minimum (EPDM only; no scrim)	517 %	Pass	Pass
Linear Dimensional Change after Heat Aging*	±1%	-0.8%	Pass	Pass
Water Absorption by Mass	+8%/-2% (EPDM only; no scrim)	+1.0%	Pass	Pass
Factory Seam Strength (D816, Method B)	8.8 kN/m (50 lbf/in) or sheet failure	N/A (no factory seams)	N/A (no factory seams)	N/A (no factory seams)
Visual Inspection after Xenon-Arc Exposure**	Pass	Pass	Pass	Pass

* Heat age EPDM membrane for: 166 ± 1.66 hours at 240 ± 4°F (116 ± 2°C), followed by specified physical testing.
** Weather Resistance shall be Practices G151 and G155 Xenon-Arc as follows:

Filter Type:	Daylight
Irradiance:	0.35 to 0.70 W/(m²·nm) @ 340 nm [42 to 84 W/(m²·nm) @ 300 to 400 nm]
Cycle:	690 minutes ± 15 minutes light, 30 minutes light plus water spray
Un-insulated Black Panel Temp:	176° ± 4°F (80° ± 2°C)
Relative Humidity:	50% ± 5%
Spray Water:	De-ionized
Specimen Rotation:	Every 315 KJ/(m²·nm) @ 340 nm [37.8 MJ/(m²·nm) @ 300 to 400 nm]
Exposure:	10,080 KJ/(m²·nm) @ 340 nm [1209.6 MJ/(m²·nm) @ 300 to 400 nm]

For use of the product as a component in an air barrier assembly, please consult your Regional Technical Coordinator, Code Agency, or Authority having Jurisdiction (AHJ) for the acceptable air barrier assembly details.