



ERS-Standard EPDM Membrane & ERS-Dusted EPDM Membrane

For Professional Use Only



PRODUCT DESCRIPTION:

ERS-Standard EPDM Membranes are high performance non-reinforced membranes that stand up to tearing, impacts, punctures and normal roof traffic. The elastomeric properties of the EPDM membranes compensate for thermal shock and building movement. EPDM membranes provide excellent resistance to ozone and aging. The EPDM membranes are manufactured in accordance with the guidelines established by the RMA (Rubber Manufacturers Association) and meet or exceed the ASTM Standard Specification D 4637. ERS-Standard EPDM Membranes are Fire Retardant (FR) membranes specially formulated to inhibit spread of flame and meet or exceed code body testing criteria for fire retardant roofing membranes.

Ecology's EPDM membranes are also available with in-seam tape that is pre-applied to the sheet. See table below for roll widths, lengths, and thicknesses available.

RECOMMENDED USES:

ERS-Standard EPDM Membranes can be installed as a new elastomeric roofing membrane in ballasted, and fully adhered roofing systems.

ADVANTAGES:

- Economical system
- Ease of Installation
- Outstanding Weatherability
- Lightweight
- Can eliminate tear-off of existing roof if appropriate.

APPROVALS:

ERS-Standard EPDM Membrane may be provided with UL and FM labels. Both UL and FM classified assemblies are available (ex: FM 1-60 and 1-90, UL class A, B and C).



INSTALLATION:

Install the EPDM membrane in accordance with the appropriate current printed Ecology Roof Systems specification. Carefully review and follow the installation instructions in the Ecology Specifications Manual. All flashing details are to be installed in accordance with Ecology's current published details.

PACKAGING:

Roll sizes for .045" and .060" ERS-Standard EPDM Membranes are widths of 7', 10', 20', 30', 40' and 50' and lengths of 50', 100' and 150'. Roll sizes for pre-taped ERS-Standard EPDM Membrane is as follows:

Product	Packaging	Roll Size	Tape Width
.060 Black, Pre-Taped	2 - Pack	10' x 100'	3"
.045 Black, Pre-Taped, Wide Roll	1 - Pack	20' x 100'	3"
.060 Black, Pre-Taped, Wide Roll	1 - Pack	20' x 100'	3"
.060 Black, Pre-Taped, Wide Roll	1 - Pack	20' x 100'	6"
.090 Black, Pre-Taped, DUSTED*	2 - Pack	10' x 50'	3"
.090 Black, Pre-Taped, DUSTED*	2 - Pack	10' x 50'	6"
.090 Black, Pre-Taped, DUSTED*	2 - Pack	10' x 100'	6"

*See Pre-Clean Product Data Sheet for Physical Properties of Membrane

PHYSICAL PROPERTIES:

Physical Properties	Test Method	Standards	Typical Values	
			.045	.060
Tolerance on Nominal Thickness, %	ASTM D 412	± 10	± 10	± 10
Weight, lbm/ft ² (kg/m ²)			0.26 (1.3)	0.35 (1.7)
Tensile Strength, min, psi(Mpa)	ASTM D 412	1305 (9)	1650 (10.7)	1650 (11.3)
Elongation, Ultimate, min, %	ASTM D 412	300	480	480
Tear Strength, min, lbf/in (kN/m)	ASTM D 624 (Die C)	150 (26.3)	200 (35.0)	200 (35.0)
Factory Seam Strength, min.	ASTM D 816 (Modified)	Membrane Rupture	Membrane Rupture	Membrane Rupture
Resistance to Heat Aging* Properties after 4 weeks @ 240°F(116°C)	ASTM D 573			
Tensile Strength, min, psi(MPa)	ASTM D 412	1205(8.3)	1500(10.3)	1500(10.3)
Elongation, Ultimate, min, %	ASTM D 412	200	225	225
Tear Resistance, min, lbf/in(kN/m)	ASTM D 624	125(21.9)	215 (37.6)	215 (37.6)
Linear Dimensional Change, max, %	ASTM D 1204	± 1.0	-0.4	-0.4
Ozone Resistance* Conditions after exposure 100 pphm Ozone in air for 168 hrs @ 104°F(40°C) Specimen is at 50% strain	ASTM D 1149	No Cracks	No Cracks	No Cracks
Brittleness Temp., max, deg. F (deg.C)	ASTM D 746	-49 (-45)	-67 (-55)	-67 (-55)
Resistance to Water Absorption* After 7 days immersion @ 158°F (70°C), Change in mass, max, %	ASTM D 471	+8, -2	+2.0	+2.0
Water Vapor Permeability* MAX. perm mils	ASTM E 96 (Proc. B or BW)	0.10	0.05	0.05
Resistance to Outdoor (Ultraviolet) Weathering Xenon-Arc, 4000 hrs. exposure, 176°F (80°C) black panel temperature	ASTM G 155	No Cracks No Cracking	No Cracks No Cracking	No Cracks No Cracking
*Not a Quality Control Test due to the time required for the test or the complexity of the test. However, all tests run on a statistical basis to ensure overall long-term performance of the sheeting.				

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