



TECHNICAL DATA BULLETIN

WEATHERBOND RBR .045" / .060" NON-REINFORCED FR EPDM MEMBRANES

GENERAL:

WeatherBond RBR .045" (1.14 mm) and .060" (1.52 mm) thick roofing membranes are factory fabricated, Ethylene Propylene Diene Terpolymer EPDM based elastomeric homogenous roof coverings that may be used for new single-ply roof construction and re-roofing installations. Membranes are available in widths up to 20' and lengths up to 100'. WeatherBond non-reinforced membranes are specially formulated to inhibit the spread of flames and meet or exceed code body testing criteria for fire retardant roofing membranes. WeatherBond RBR .045"/.060" non-reinforced membranes meet UL Class "A" testing standards.

TYPICAL PROPERTIES AND CHARACTERISTICS:

See Table on page three.

CAUTIONS AND WARNINGS:

- Use proper stacking procedures to ensure sufficient stability of the materials.
- Exercise caution when walking on wet membrane. Membranes are slippery when wet.

INSTALLATION:

WeatherBond RBR .045" or .060" membranes are utilized in Fully-Adhered Roofing Systems.

Fully-Adhered Roofing System: Insulation is mechanically attached to the roof deck. The substrate and membrane are coated with WeatherBond RBR LC-60 Bonding Adhesive. The membrane is then rolled into place and brushed down. Multipurpose Primer and Peel and Stick Seam Tape is used for seaming.

Consult WeatherBond specifications for complete installation information.

SUPPLEMENTAL APPROVALS, STATEMENTS AND CHARACTERISTICS:

1. WeatherBond RBR Non-Reinforced EPDM roofing membrane meets or exceeds all of the requirements of the ASTM D4637 Standard Specification for EPDM based Sheet Roofing.

WEATHERBOND RBR .045" & .060" EPDM TYPICAL PROPERTIES AND CHARACTERISTICS			
Physical Property	Test Method	SPEC. (PASS)	TYPICAL
Tolerance on Nominal Thickness, %	ASTM D 412	±10	±10
Weight, 1bm/ft ² (kg/m ²) .045 .060			0.26 (1.3) 0.35 (1.7)
Tensile Strength, min, psi (Mpa)	ASTM D 412	1305 (9)	1650 (11.3)
Elongation, Ultimate, min, %	ASTM D 412	300	480
Tear Strength, min, lbf/in (kN/m)	ASTM D 624 (Die C)	150 (26.3)	200 (35.0)
Factory Seam Strength, min, lbf/in (kN/m)	Modified ASTM D 816	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)
Elongation, Ultimate, min, %	ASTM D 412	200	225
Tear Strength, min, lbf/in (kN/m)	ADTM D 624	125 (21.9)	215 (37.6)
Linear Dimensional Change, max, %	ASTM D 1204	±1.0	-0.4
Ozone Resistance* Condition after exposure to 100 pphm Ozone in air for 168 hours @ 104°F (40°C) Specimen is at 50% strain	ASTM D 1149	No Cracks	No Cracks
Brittleness Temp., max, deg. F (deg. C)*	ASTM D 746	-49 (-45)	-67 (-55)
Resistance to Water Absorption* After 7 days immersion @ 158°F (70°C) Change in mass, max, %	ASTM D 741	+8, -2	+2.0
Water Vapor Permeance* Max, perms	ASTM E 96 (Proc B or BW)	0.10	0.05
Resistance to Outdoor (Ultraviolet) Weathering* Xenon-Arc, 7560 kJ/m ² total radiant exposure at 0.70 W/m ² irradiance, 80°C black panel temp.	ASTM G155	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 are run on a statistical basis to ensure overall long-term performance of the sheeting.			

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