

# PRODUCT DATA SHEET

## MULE-HIDE 60 and 90 mil FR EPDM MEMBRANE (Pre-Cleaned)

### PRODUCT DESCRIPTION

Mule-Hide 60, and 90 mil thick FR EPDM membranes (Pre-Cleaned) are high performance non-reinforced membrane that stands up to tearing, impacts, punctures and normal roof traffic. The elastomeric properties of the EPDM membrane compensate for thermal shock and building movement. EPDM membranes provide excellent resistance to ozone and aging. The membrane is manufactured in accordance with the guidelines established by the RMA (Rubber Manufacturers Association) and meets or exceeds the ASTM Standard Specification D 4637. Fire Retardant (FR) EPDM membranes are specially formulated to inhibit spread of flame and meet or exceed code body testing criteria for fire retardant roofing membranes.

Mule-Hide EPDM (Pre-Cleaned) membranes are available with in-seam tape that is pre-applied to the sheet. See below for sizes available.

### BASIC USES

The pre-cleaned FR EPDM membranes are used primarily in Fully Adhered roofing systems.

### SPECIFICATIONS

Mule-Hide 60-mil and 90-mil Thick FR EPDM Membranes (Pre-Cleaned).

Physical Properties	Test Method	Standards	Typical FR Values
Tolerance on Nominal Thickness, %	ASTM D 412	± 10	± 10
Weight, lbm/ft <sup>2</sup> (kg/m <sup>2</sup> ) .060 .090			0.35 (1.7) 0.59 (2.9)
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.	ASTM D 816 (Modified)	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 Resistance, min, lbf/in(kN/m)	ASTM D 624	125(21.9)	215 (37.6)
Linear Dimensional Change, max, %	ASTM D 1204	± 1.0	-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
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 471	+8, -2	+2.0
Water Vapor Permeability* MAX. perm mils	ASTM E 96 (Proc. B or BW)	0.10	0.05
Resistance to Outdoor (Ultraviolet) Weathering Xenon-Arc, 4000 hrs. exposure, 176°F (80°C) black panel temperature	ASTM D 4637 Conditions	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.			

Form # PDS-E-1B

## MULE-HIDE PRODUCTS CO., INC.

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### SYSTEM BENEFITS

- 1) Economical system
- 2) Ease of Installation
- 3) Outstanding Weatherability
- 4) Lightweight
- 5) Can eliminate tear-off of existing roof if appropriate.

### SIZES

Roll sizes are available in 10' (3m) widths and lengths of 50' (15m) and 100' (30m).

Roll sizes for pre-taped Black EPDM (Pre-Cleaned) is as follows:

Product	Packaging	Roll Size	Tape Width
.045 Pre-Cleaned, Pre-Taped	2 - Pack	10' x 100'	3"
.060 Pre-Cleaned, Pre-Taped	2 - Pack	10' x 50'	3"
.060 Pre-Cleaned, Pre-Taped	2 - Pack	10' x 100'	3"
.090 Black, Pre-Taped, <b>DUSTED*</b>	2 - Pack	10' x 50'	3"
.090 Black, Pre-Taped, <b>DUSTED*</b>	2 - Pack	10' x 50'	6"
.090 Black, Pre-Taped, <b>DUSTED*</b>	2 - Pack	10' x 100'	6"

### SYSTEM ACCESSORIES

A full line of accessories is available from Mule-Hide including flashings, membranes, bonding adhesives, splice adhesives, in-seam tapes, cured cover tapes, uncured flashing tapes, tape primer, lap sealant, seam cleaner, water cut-off mastic, pourable sealer, pre-formed pipe boots, walk pads, termination bar, fasteners and plates.

### CODE APPROVALS

The FR 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 INSTRUCTIONS

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

### TECHNICAL SERVICES

Contact Mule-Hide Products Co., Inc. at 608/365-3111 for additional information.

### DISCLAIMER

The statements provided concerning the material shown are intended as a guide for material usage and are believed to be true and accurate. No statement made by anyone may supersede this information, except when done in writing by Mule-Hide Products Co., Inc. Since the manner of use is beyond our control, Mule-Hide does not make nor does it authorize anyone to make any warranty of merchantability or fitness for any particular purpose or any other warranty, guarantee or representation, expressed or implied, concerning this material except that it conforms to Mule-Hide's physical properties. Buyer and user accept the product under these conditions and assume the risk of any failure, any injury of person or property (including that of the user), loss or liability resulting from the handling, storage or use of the product whether or not it is handled, stored or used in accordance with the directions or specifications. Mule-Hide must be notified in writing of any claims and be given the opportunity to inspect the complaint or failure before repairs are made.

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