

PRODUCT DATA SHEET

MULE-HIDE STANDARD AND FR REINFORCED EPDM MEMBRANES

PRODUCT DESCRIPTION

Mule-Hide Standard Reinforced EPDM is a high performance 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) membranes are specially formulated to inhibit spread of flame and meet or exceed code body testing criteria for fire retardant roofing membranes.

Mule-Hide STANDARD and FR REINFORCED EPDM membranes are available with in-seam tape that is pre-applied to the sheet. See below for sizes available.

BASIC USES

Can be installed as a new elastomeric roofing membrane in Mechanically Attached and Fully Adhered roofing systems.

SPECIFICATIONS

Mule-Hide .045 and .060 Inch Thick Standard and FR Reinforced EPDM Membrane.

Physical Properties	Test Method	SPEC. (Pass)	Typical Standard	Typical FR
Tolerance on Nominal Thickness, %	ASTM D 751	± 10	± 10	± 10
Thickness Over Scrim, min, in.(mm)	ASTM D 4637 Annex	0.015 (0.381) 0.015 (0.381)	0.016 (0.406) 0.020 (0.508)	0.016 (0.406) 0.020 (0.508)
Weight, lbm/ft ² (kg/m ²)			0.24 (1.2) 0.34 (1.7)	0.27 (1.3) 0.39 (1.9)
Elongation, Ultimate, min, %	ASTM D 412 Die C	250**	480**	480**
Tear Strength min, lbf (N)	ASTM D 751 B Tongue Tear	10(45)	30(132)	30(132)
Breaking Strength, min, lbf(N)	ASTM D 751 (Grab Method)	90(400)	180(800)	180(800)
Factory Seam Strength, min.	ASTM D 816 (Modified)	Membrane Rupture	Membrane Rupture	Membrane Rupture
Brittleness point, max, deg.F (deg.C)*	ASTM D 2137	-49(-45)	-60(-51)	-60(-51)
Resistance to Heat Aging* Properties after 4 weeks @ 240°F(116°C) Breaking Strength, min, lbf(N) Elongation, Ultimate, min, % Linear Dimensional Change, max, %	ASTM D 573 ASTM D 751 ASTM D 412 Die C ASTM D 1204	80(355) 200** ± 1.0	200(890) 250** -0.7	200(890) 250** -0.7
Ozone Resistance* Conditions after exposure 100 pphm Ozone in air for 168 hrs @ 104°F(40°C) Specimen wrapped around 3 inch mandrel	ASTM D 1149	No Cracks	No Cracks	No Cracks
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**
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	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.				
**Specimens to be prepared from coating rubber compound, vulcanized in a similar method to the reinforced product.				

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MULE-HIDE STANDARD AND FR REINFORCED EPDM MEMBRANES

SYSTEM BENEFITS

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

SIZES

Roll sizes for .045" and .060" Standard Reinforced EPDM membranes are widths of 7' and 10' by a length of 100'. Fire Retardant Reinforced EPDM Membranes are 10' wide and 100' in length.

Roll sizes for pre-taped Standard Reinforced EPDM membranes are as follows:

Table with 4 columns: Product, Packaging, Roll Size, Tape Width. Rows include .045 Reinforced, Pre-Taped and .060 Reinforced, Pre-Taped.

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

Standard Fire Retardant Reinforced EPDM membranes 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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