



# White-on-Black Reinforced EPDM Membrane

## 60-mil Reinforced Membrane

### PRODUCT DATA SHEET



#### BENEFITS AND SUPPLEMENTAL STATEMENTS

- Can be installed over a variety of roof decks
- Outstanding weatherability
- Sheets can be pre-taped for labor savings and consistent seam placement
- Requires no special equipment to install
- Available as a lightweight system
- Full line of pre-taped accessories available

#### TYPICAL PROPERTIES AND CHARACTERISTICS

Physical Property	Test Method	SPEC. (PASS)	Typical
Tolerance on Nominal Thickness, %	ASTM D751	±10	±10
Thickness Over Scrim, min, in. (mm)	ASTM D4637 Annex	0.015 (0.381)	0.025 (0.635)
Weight, lbm/ft <sup>2</sup> (kg/m <sup>2</sup> ) .060			0.40 (2.0)
Breaking Strength, min, lbf (N) .060	ASTM D751 Grab Method CD	90 (400)	225 (996)
Elongation, Ultimate, min, % .060	ASTM D412 Die C	250**	480**
Tearing Strength, min, lbf (N) .060	ASTM D751 B Tongue Tear	10 (45)	70 (311)
Brittleness Point, max, °F (°C)*	ASTM D2137	-49 (-45)	-49 (-45)
<b>Resistance to Heat Aging*</b> Properties after 28 days @ 240°F (116°C)	ASTM D573		
Breaking Strength, min, lbf (N)	ASTM D751	80 (355)	1450 (10.0)
Elongation, Ultimate, min, %	ASTM D412	200**	250**
Linear Dimensional Change, max, %	ASTM D1204	±1.0	-1.0
<b>Ozone Resistance*</b> Condition after exposure to 100 pphm Ozone in air for 168 hrs @ 104°F (40°C) Specimen wrapped around 3" mandrel	ASTM D1149	No Cracks	No Cracks
<b>Resistance to Water Absorption*</b> After 7 days immersion @ 158°F (70°C) Change in mass, max, %	ASTM D471	+8, -2**	5.2**
<b>Water Vapor Permeance*</b> Max, perms	ASTM E 96 (Proc. B or BW)	0.10	0.02
<b>Fungi Resistance</b>	ASTM G21	N/A	0 (no growth)
<b>Specular Gloss at 85°C</b>	ASTM D523	N/A	3
<b>Resistance to Outdoor (Ultraviolet) Weathering*</b> Xenon-Arc, total radiant exposure at 0.70 W/m <sup>2</sup> irradiance, 80°C black panel temperature	AST G155	No Cracks No Cracking 2,520 kJ/m <sup>2</sup> 1,000 hrs	No Cracks No Cracking 25,200 kJ/m <sup>2</sup> 10,000 hrs
At 0.35 W/m <sup>2</sup> irradiance, 80°C black panel temperature		2,000 hrs	20,000 hrs

#### DESCRIPTION

White-on-Black Reinforced EPDM membrane (60-mil) is a high-performance polyester reinforced membrane that stands up to tearing, impacts, punctures, and normal roof traffic. The elastomeric properties of the EPDM sheet compensates for thermal shock and building movement. EPDM membranes provide excellent resistance to ozone and aging. These membranes are manufactured in accordance with the guidelines established by the RMA (Rubber Manufacturers Association) and meet or exceed ASTM Standard Specification D 4637, Type II.

#### BASIC USES

Our White-on-Black Reinforced EPDM membrane is used in mechanically attached and fully adhered roofing systems in new construction, reroofing and recover (retrofit) applications. It may also be used as flexible membrane flashings for walls, curbs, etc, when installing an EPDM membrane roofing systems. The system must be installed over acceptable roof insulation or other suitable substrate. See the Mule-Hide EPDM Specifications Manual for complete specifications and details.

#### LEED INFORMATION

Pre-consumer Recycled Content	0%
Post-consumer Recycled Content	0%
Manufacturing Location	Carlisle, PA
Solar Reflectance Index (SRI)	95
Corporate Sustainability Report	Yes



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#### CODE APPROVALS/COMPLIANCE

A variety of Factory Mutual Ratings, Underwriters Laboratories Classifications and Miami-Dade Approvals are available. Contact Mule-Hide Warranty Department for additional information. Meets or exceeds requirements of ASTM D 4637, Type II for reinforced EPDM single-ply roofing membranes.

#### INSTALLATION INSTRUCTIONS

1. Approved insulation shall be attached to the roof deck with an approved insulation adhesive or approved fasteners and plates. Install insulation with its largest dimension perpendicular to the direction of the membrane seams where possible.
2. Mechanically Attached Roofing System
  - a. Perimeter sheets to be installed in an approved pattern along all exterior roof edges.
  - b. Mechanical fasteners and plates are installed in the seams of both the perimeter sheets and field sheets and into the roof deck. Use approved fasteners and maintain proper penetration for specific roof deck.
3. Fully Adhered Roofing System
  - a. Perimeter sheets are not required.
  - b. The membrane is required to be mechanically attached at the base of all vertical surfaces, roof edges, and angle changes.
  - c. The field of the roof is fully adhered to the substrate with Mule-Hide membrane adhesive.
4. All seams are made with Mule-Hide Tape Primer and White In-Seam Tape.
5. All details will be done in accordance with Mule-Hide details.
6. This is only a brief summary and not the complete specification. Mule-Hide Specifications, Details, Technical Bulletins, and associated documents should be thoroughly reviewed prior to starting any project. Contact Mule-Hide Products for additional information.

#### STORAGE AND HANDLING

- Use proper stacking procedures to ensure sufficient stability of the materials.
- Surfaces may be slippery when wet, or due to frost and ice build-up. Exercise caution to prevent falls.
- Exercise care when working near edge of roof.
- Store Mule-Hide membrane in original wrappings in a cool, shaded area. Cover with light colored, breathable, waterproof tarpaulins.
- Pre-Taped membranes should not be exposed to prolonged jobsite storage temperatures in excess of 90°F (32°C), otherwise the shelf life of the Pre-Tape may be affected.
- When using pre-taped membranes in warm, sunny weather, shade the tape end of the rolls until ready to use.
- Mule-Hide Pre-Tape has a shelf life of one year.

#### PROTECTION & SAFETY

Mule-Hide maintains Safety Data Sheets on all of its non-exempt products. Safety Data Sheets contain health and safety information for your development of appropriate product handling procedures to protect your employees and customers. Mule-Hide's Safety Data Sheets should be read and understood by all of your supervisory personnel and employees before using Mule-Hide products in your facilities.

#### SUPPLEMENTAL APPROVALS, STATEMENTS AND CHARACTERISTICS

RADIATIVE PROPERTIES FOR CRRC AND LEED		
DESCRIPTION	TEST METHOD	WHITE EPDM
CRRC initial solar reflectance	ASTM C1549	0.77
CRRC solar reflectance after 3 yrs.	ASTM C1549 (uncleaned)	0.66
CRRC initial thermal emittance	ASTM C1371	0.84
CRRC thermal emittance after 3 yrs.	ASTM C1371 (uncleaned)	0.87
SRI (Solar Reflectance Index)	ASTM E1980/ aged 3 yrs.	95/80

#### ADDITIONAL INFORMATION

On projects where a Mule-Hide Standard or Premium Warranty is requested, an authorized Mule-hide representative shall inspect all completed work.

The information given on this PDS is subject to change without notice. Always check the Mule-Hide website at [www.mulehide.com](http://www.mulehide.com) for the latest information, changes and updates or contact Mule-Hide Products Company at 800-786-1492.

#### DISCLAIMER

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