



Gray EPDM Membrane

60-mil Membrane

PRODUCT DATA SHEET



- Full line of pre-taped accessories available
- Gray EPDM can be an ideal choice in markets where heating and cooling costs are more balanced
- Added slip resistance of rubber and less glare than white roofs
- Gray EPDM offers reflectivity while still providing a “dry-down” effect

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 I for reinforced EPDM single-ply roofing membranes.

DESCRIPTION

Mule-Hide Gray EPDM is a 60-mil (1.52 mm) non-reinforced EPDM-based elastomeric homogenous roof covering. This roofing membrane may be used for new single-ply roof construction and re-roofing applications. Gray EPDM is available in a 10' (3 m) width and lengths of up to 100' (30 m).

BASIC USES

Our Gray EPDM membrane is used in 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)	55
Corporate Sustainability Report	Yes

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

TYPICAL PROPERTIES AND CHARACTERISTICS			
Physical Property	Test Method	SPEC. (PASS)	Typical
Tolerance on Nominal Thickness, %	ASTM D412	±10	±10
Weight, lbs/ft ² (kg/m ²) 60-mil	0.40 (2.0)		
Tensile Strength, min, psi (MPa)	ASTM D412	1305 (9)	1465 (10.1)
Elongation, Ultimate, min, %	ASTM D412	300	540
Tear Strength, min, lbf/in (kN/m)	ASTM D624 (Die C)	150 (26.3)	187 (32.7)
Factory Seam Strength, min	Modified ASTM D816	Membrane Rupture	Membrane Rupture
Resistance to Heat Aging* Properties after 28 days @ 240°F (116°C) Tensile Strength, min, psi (MPa) Elongation, Ultimate, min, % Tear Strength, min, lbf/in (kN/m) Linear Dimensional Change, max, %	ASTM D573 ASTM D412 ASTM D412 ASTM D624 ASTM D1204	7 Days 1205 (8.3) 200 ±1.0	21 Days 1345 (9.3) 280 170 (29.8) -2.0
Ozone Resistance* Condition after exposure to 100 pphm Ozone in air for 168 hrs @ 104°F (40°C) Specimen is at 50% strain	ASTM D1149	No Cracks	No Cracks
Brittleness Temp., max, °F(°C)*	AST D746	-49(-45)	-67(-55)
Resistance to Water Absorption* After 7 days immersion @ 158°F (70°C) Change in mass, max, %	ASTM D471	+8, -2	+3.3
Water Vapor Permeance* Max, perms	ASTM E 96 (Proc. B or BW)	0.10	0.02
Flexibility/Torsion DMA	ASTM D5279-08	N/A	55 MPa @ -40°F
Fungi Resistance	ASTM G21	N/A	0 (no growth)



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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. 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.
3. All seams are made with Mule-Hide Tape Primer and Gray In-Seam Tape.
4. All details will be done in accordance with Mule-Hide details.
5. 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	GRAY EPDM
CRRC initial solar reflectance	ASTM C1549	0.47
CRRC solar reflectance after 3 yrs.	ASTM C1549 (uncleaned)	0.42
CRRC initial thermal emittance	ASTM C1371	0.88
CRRC thermal emittance after 3 yrs.	ASTM C1371 (uncleaned)	0.88
SRI (Solar Reflectance Index)	ASTM E1980/ aged 3 yrs.	55/47

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 for the latest information, changes and updates or contact Mule-Hide Products Company at 800-786-1492.

DISCLAIMER

The statements provided concerning the material shown are intended as a guide for material usage and are believed to be true and accurate at the time of printing. 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 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. This product may be eligible for a Mule-Hide warranty, please check the Mule-Hide website at www.mulehide.com or contact Mule-Hide directly at 800-786-1492 for details. Buyer and user accept the product under these conditions and assume the risk of any failure, any injury 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 alleged failure before repairs are made.