



Gray EPDM Membrane

60-mil Membrane

PRODUCT DATA SHEET



DESCRIPTION

MuleHide 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 MuleHide 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

- 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.

TYPICAL PROPERTIES AND CHARACTERISTICS

Physical Property	Test Method	SPEC. (PASS)	Typical
Tolerance on Nominal Thickness, %	ASTM D412	±10	±10
Weight, lbs/ft² (kg/m²) 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 MuleHide membrane adhesive.
3. All seams are made with MuleHide Tape Primer and White In-Seam Tape.
4. All details will be done in accordance with MuleHide details.
5. This is only a brief summary and not the complete specification. MuleHide Specifications, Details, Technical Bulletins, and associated documents should be thoroughly reviewed prior to starting any project. Contact MuleHide 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 MuleHide 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.
- MuleHide Pre-Tape has a shelf life of one year.

PROTECTION & SAFETY

MuleHide 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. MuleHide's safety data sheets should be read and understood by all of your supervisory personnel and employees before using MuleHide 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 MuleHide standard or premium warranty is requested, an authorized MuleHide representative shall inspect all completed work.

The information given on this PDS is subject to change without notice. Always check the MuleHide website at www.mulehide.com for the latest information, changes and updates or contact MuleHide at 800-786-1492.

DISCLAIMER

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