

POLYKOOOL®

PRODUCT DESCRIPTION

Polykool membrane is a premium, self-adhered, fire-rated, modified bitumen roofing products, manufactured via patented ADESO® Dual-Compound technology, whereby the membrane consists of an APP compound on the top layer and an aggressive self-adhesive compound on the bottom layer. Polykool self-adhered membranes are built with a high performance reinforced polyester mat to guarantee excellent dimensional stability.

Polykool self-adhered membranes are finished with a patent pending PVDF (Polyvinylidene Fluoride) bright white and highly reflective film laminate weathering surface. The side laps have a patented SEAllap®; a factory-applied adhesive treatment that enhances bonding at the laps. Polykool has a split release film on the bottom side.

When installed as a system with Polykool Tape, Polykool provides superior watertight performance and a highly reflective, durable roofing surface. Polykool meets current and proposed cool roof performance standards including California Title 24 and Energy Star®, and is rated by the CRRC®, Houston and Chicago Energy codes.

USES


- Energy Star/ Title 24 compliant, primary weathering cap sheet in multi-ply roofing systems
- Applications include new construction and re-roofing
- As a flashing membrane in all applicable specifications

FEATURES AND BENEFITS

- High performance membrane with built-in energy efficiencies
- Self-cleaning and anti-staining surface
- Resistant to volatile contaminants (animal fats, grease and oils)

TECHNICAL DESCRIPTION

TEST METHOD	PROPERTY	VALUE
ASTM D6222	Thickness, nominal, mm (mils)	3.4 (134)
ASTM D6222	Net mass/unit area, min, lbs/100 ft ² (g/m ²)	85 (4150)
ASTM D5147	Bottom coating thickness, min, mils (mm)	20 (0.5)
ASTM D5147	Maximum load at 0 ± 3.6°F (-18 ± 2°C), MD & XMD, min, before and after heat conditioning, lbf/in. (kN/m)	60 (10.5)
ASTM D5147	Elongation at 0 ± 3.6°F (-18 ± 2°C), MD & XMD, min, at maximum load, %	10
ASTM D5147	Maximum load at 73.4 ± 3.6°F (23 ± 2°C), MD & XMD, min, before and after heat conditioning, lbf/in. (kN/m)	50 (8.8)
ASTM D5147	Elongation at 73.4 ± 3.6°F (23 ± 2°C), MD & XMD, min, at maximum load, before and after heat conditioning, %	23
ASTM D5147	Tear strength at 73.4 ± 3.6°F (23 ± 2°C), min, lbf (N)	70 (311)
ASTM D5147	Low temperature flexibility, max, before and after heat conditioning, °F (°C)	+32 (0)
ASTM D6222	Dimensional stability, max, %	1
ASTM D5147	Compound stability, °F (°C) min	230 (110)
ASTM D5147	Water absorption, % max	3.2
ASTM D5147	Moisture content, % min	1.0
ASTM D5636	Low temperature unrolling, °F (°C) max	41 (5)

		<u>Initial</u>	<u>Weathered</u>
	Solar Reflectance	0.76	0.70
	Thermal Emittance	0.80	0.91
	Solar Reflectance Index (SRI)	92	86
	Rated Product ID Number	0616-0001a	
	Licensed Seller ID Number	0616	
Cool Roof Rating Council ratings are determined for a fixed set of conditions, and may not be appropriate for determining seasonal energy performance. The actual effect of solar reflectance and thermal emittance on building performance may vary.			
Manufacturer of product stipulates that these ratings were determined in accordance with the applicable Cool Roof Council procedures.			



PRODUCT DATA

Coverage (Nominal)	100 sq ft
Weight (Approx)	85 lbs
Roll Size	32'10" x 39 3/8" (10m x 1m)
Rolls/Pallet	20

APPLICABLE STANDARDS

- ASTM D 6222
- Tested in accordance with ASTM D 5147
- UL class A assemblies
- Factory Mutual Approved
- ICC ESR-2018
- TDI
- Energy Star and California Title 24 Compliant
- Cool Roof Rating Council rated
- Houston, Austin and Chicago "Cool Roof" Compliant



PRODUCT WARRANTY

Polyglass USA, Inc. commercial roofing membranes can be backed with a manufacturer's warranty for up to 20 years when used as part of an approved, multi-ply roofing system. Please see your Polyglass USA, Inc. Sales or Technical Representative for specifications and details.



1-800-222-9782

www.polyglass.com

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APPLICATION INSTRUCTIONS

Polykool self-adhered membranes are intended to be used as the primary weathering surface in new or re-roofing applications. Polykool self-adhered membranes can be installed directly to a roof deck in a non living space situation, i.e. garage, carports, sheds, shade canopies etc, or as the cap sheet in a complete self-adhered roofing assembly.

- Do not apply to shingles, shakes or other residential roof coverings.
- Apply only when the weather is dry and material interface temperatures (air, roof deck, membrane) are 40°F (5°C) and rising.
- Structure must be fully supported prior to installation.
- Apply only over clean, dry and dust free surfaces. Concrete, masonry, metal and metallic surfaces must be primed prior to application.
- Masonry or concrete supported by steel frame or other steel structure shall be provided with suitable expansion provisions and detailed for movement.
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- Ensure installation of Polykool self-adhered membrane does not prevent existing construction ventilation.
- When re-roofing, remove all prior roof materials to a clean, debris-free substrate, and properly close off all roof penetrations no longer being used.
- Polykool self-adhered membrane must be rolled out so release paper side is up. Let relax.
- Position the roll straight and lay the material flat in place, starting alignment at the lowest edge of the roof. Water should always flow over or parallel to all side laps.
 1. Remove the split release film one half at a time by peeling off at a 45° angle.
 2. Press the membrane into place with firm even pressure. Roll edges firmly with a silicon rubber, or other suitable, roller to ensure proper adhesion.
 3. Gradually peel release film from the remaining membrane, pressing and rolling evenly, from the center to the outer edges, as you go.
 4. Head laps must be field prepared by providing a 6" minimum overlap and using a heat gun to complete the seam.
 5. Side laps must be rolled in place after removal of the protective tape and release film.
 6. When installing a base sheet, apply the Elastoflex SA V Base and the Polykool membrane in the same direction. Do not run the materials in opposing directions.
 7. After adhering rolls, apply uniform pressure to the entire roll area by using a minimum 80 lb. linoleum roller, water filled lawn roller or similar weighted roller. Care must be taken to prevent injury when rolling membrane, especially on sloped surfaces.
 8. Apply Polykool Tape to all side laps, end laps, flashing seams and any other exposed edges of the Polykool membrane.

See Polykool Tape product data sheet for complete details.

POLYGLASS U.S.A., INC. MANUFACTURING FACILITIES

- Fernley, NV
- Hazleton, PA
- Winter Haven, FL

CORPORATE HEADQUARTERS

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Questions? technical@polyglass.com

Product Disclaimer: Unless otherwise incorporated into or part of a supplemental manufacturer's warranty, Polyglass warrants its product(s) against manufacturing defects in its product that directly results in leakage for a period of 2 years.

Refer to material safety data sheet (MSDS) for specific data and handling of our products. All data furnished refers to standard production and is given in good faith within the applicable manufacturing and testing tolerances.

Polyglass U.S.A., Inc., reserves the right to improve and change its products at any time without prior notice. Polyglass U.S.A., Inc. cannot be held responsible for the use of its products under conditions beyond its own control.

For most current product data and warranty information, visit www.polyglass.com



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