

PRODUCT DATA SHEET

Sarnafil® G 410-80 Feltback EnergySmart

80 mil thick PVC thermoplastic membrane with 9 oz felt

DESCRIPTION

Sarnafil® G 410-80 Feltback EnergySmart Roof Membrane is a PVC thermoplastic membrane produced with an integral fiberglass mat reinforcement for excellent dimensional stability, is highly reflective, with heat-weldable seams, and a unique lacquer coating applied to the top of the membrane to reduce dirt pick up.

USES

Used in adhered applications with various adhesives over various substrates.

AREAS OF APPLICATION

- New Roofs
- Reroofs
- Recovers

CHARACTERISTICS / ADVANTAGES



- Highly reflective
- Excellent dimensional stability
- Factory applied lacquer coated to reduce dirt pick up
- Hot-air welded seams for long-term performance
- Proven membrane performance
- Superior fire resistance

APPROVALS / STANDARDS

- FM Global
- Underwriters Laboratories
- Underwriters Laboratories of Canada
- ICC Code Compliance – ESR 1157
- Miami-Dade County
- Florida Building Code
- NSF/ANSI 347: Platinum Certified
- California Title 24
- LEED / Green Globes

PRODUCT INFORMATION

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|------------------------------|--|
| Chemical Base | High-quality, PVC membrane containing ultraviolet light stabilizers, flame retardant and fiberglass reinforcement with a unique lacquer coating on the top surface. |
| Recycled Content | 9% Pre-consumer, 1% Post-consumer |
| Reinforcing Material | Fiberglass |
| Packaging | <p>80 mil (2.0 mm) Membrane (White, Reflective Gray, and Tan) 10 ft x 80 ft (3 m x 24 m) roll, 459 lbs (208 kg) per roll, 8 rolls per pallet</p> <p>80 mil (2.0 mm) Membrane (Patina Green) 6.56 ft x 49.2 ft (2 m x 15 m) roll, 193 lbs (88 kg) per roll, 10 rolls per pallet</p> |
| Appearance / Colour | <ul style="list-style-type: none"> ▪ Top: White, Reflective Gray, Tan, and Patina Green ▪ Bottom: Gray |
| Shelf Life | N/A |
| Storage Conditions | Store rolls on pallets and fully protected from the weather with clean canvas tarpaulins. Unvented polyethylene tarpaulins are not accepted due to the accumulation of moisture beneath the tarpaulin in certain weather conditions that may affect the ease of membrane weldability. |
| Overall Thickness | 80 mil (2.0 mm), minimum thickness (ASTM D-751) 45 mil (ASTM Type II D-4434 Spec. Requirement) |
| Thickness Above Scrim | 40 mil (ASTM D-7635) 16 mil (ASTM Type II D-4434 Spec. Requirement) |
| Felt Weight | 9 oz/yd ² |

TECHNICAL INFORMATION

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|--|---|
| Resistance to Static Puncture | Pass (ASTM D-5602) 33 lbf (15 kg) (ASTM Type II D-4434 Spec. Requirement) |
| Resistance to Dynamic Puncture | Pass (ASTM D-5635) 7.3 ft-lbf (10 J) (ASTM Type II D-4434 Spec. Requirement) |
| Tensile Strength | 110 lbf (489 N) (ASTM D-751) 55 lbf (245 N) (ASTM Type II D-4434 Spec. Requirement) |
| Elongation at Break | 250 & 220% MD & CMD ¹ (ASTM D-751) 250 & 220% MD & CMD ¹ (ASTM Type II D-4434 Spec. Requirement) |
| | ¹ MD = Machine Direction, CMD = Cross Machine Direction. |
| Linear Dimensional Change | -0.01% (ASTM D-1204) 0.1% (ASTM Type II D-4434 Spec. Requirement) |
| Tear Strength | 22 lbf (98 N) (ASTM D-1004) 10 lbf (45 N) (ASTM Type II D-4434 Spec. Requirement) |
| Seam Strength | Pass (ASTM D-751) 75% of original ² (ASTM Type II D-4434 Spec. Requirement) |
| | ² Failure occurs through membrane rupture not seam failure. |
| Retention of Properties after Heat Ageing | Tensile Strength, % of original: Pass (ASTM D-3045) Elongation, % of original: Pass (ASTM D-751) Tensile Strength, % of original: 90 (ASTM Type II D-4434 Spec. Requirement) Elongation, % of original: 90 |

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| Resistance to UV Exposure | 10,000 hours | (ASTM G-154) |
| | 5,000 hours | (ASTM Type II D-4434 Spec. Requirement) |
| | Cracking (7x magnification) | None |
| | Discoloration (by observation) | Negligible |
| | Crazing (7x magnification) | None |

| | | |
|---|--------|---|
| Weight Change after Immersion in Water | 1.7% | (ASTM D-570) |
| | ± 3.0% | (ASTM Type II D-4434 Spec. Requirement) |

| Solar Reflectance | EnergySmart Colors | Initial Solar Reflectance¹ | 3-Year Solar Reflectance¹ |
|--|--------------------------------|--|---|
| | EnergySmart White ² | | 0.85 |
| EnergySmart Tan ² | | 0.73 | 0.65 |
| EnergySmart Reflective Gray ² | | 0.73 | 0.66 |
| EnergySmart Patina Green ³ | | 0.55 | 0.46 |

¹ Solar Reflectance testing according to ASTM C1549.

² Meets LEED, Green Globes, and California's Title 24 criteria for Low and Steep Slope applications.

³ Meets LEED, Green Globes, and California's Title 24 criteria for Steep Slope applications.

| Thermal Emittance | EnergySmart Colors | Initial Thermal Emittance¹ | 3-Year Thermal Emittance¹ |
|--|--------------------------------|--|---|
| | EnergySmart White ² | | 0.86 |
| EnergySmart Tan ² | | 0.85 | 0.86 |
| EnergySmart Reflective Gray ² | | 0.89 | 0.88 |
| EnergySmart Patina Green ³ | | 0.86 | 0.85 |

¹ Thermal Emittance testing according to ASTM C1371, Slide Method.

² Meets LEED, Green Globes, and California's Title 24 criteria for Low and Steep Slope applications.

³ Meets LEED, Green Globes, and California's Title 24 criteria for Steep Slope applications.

| Solar Reflectance Index | EnergySmart Colors | Initial Solar Reflectance Index¹ | 3-Year Solar Reflectance Index¹ |
|--|--------------------------------|--|---|
| | EnergySmart White ² | | 107 |
| EnergySmart Tan ² | | 89 | 78 |
| EnergySmart Reflective Gray ² | | 90 | 80 |
| EnergySmart Patina Green ³ | | 64 | 51 |

¹ Solar Reflectance Index calculated according to ASTM E1980.

² Meets LEED, Green Globes, and California's Title 24 criteria for Low and Steep Slope applications.

³ Meets LEED, Green Globes, and California's Title 24 criteria for Steep Slope applications.

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|---------------------------------------|--------------------|---|
| Flexibility at low temperature | Pass | (ASTM D-2136) |
| | Pass -40°F (-40°C) | (ASTM Type II D-4434 Spec. Requirement) |

BASIS OF PRODUCT DATA

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

FURTHER DOCUMENTS

AVAILABILITY

From Sika Corporation – Roofing Authorized Applicators for use within Sarnafil or Sikaplan systems.

WARRANTY

Upon successful completion of the installed roof by the Sika Authorized Applicator in compliance with Sika requirements, Sika Corporation will provide a warranty to the Building Owner via the Sika Authorized Applicator.

ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS

APPLICATION

Sarnafil G 410 is installed after proper preparation of the approved substrate. The membrane is unrolled into Sarnacol® adhesive in accordance with Sika's technical requirements and then pressed into place with a minimum 75 lb (34 kg) steel roller. Sarnafil G 410 seams are heat-welded together by trained operators using hot-air welding equipment. Different Sarnacol adhesives require different application methods. Please consult Sika's Specifications or Applicator Handbook for detailed installation procedures.

MAINTENANCE

Standard maintenance of Sarnafil and Sikaplan systems should include regular inspections of flashings, drains, and termination sealants at least twice a year and after each storm.

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

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Product Data Sheet

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