

PRODUCT DATA SHEET

Sarnafil[®] G 410-48 Feltback EnergySmart

PVC THERMOPLASTIC MEMBRANE

PRODUCT DESCRIPTION

Sarnafil[®] G 410-48 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.

WHERE TO USE

Sarnafil[®] G 410-48 Feltback EnergySmart is 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 / CERTIFICATES

- FM Global
- Underwriters Laboratories
- Underwriters Laboratories of Canada
- ICC Code Compliance ESR 1157
- Miami-Dade County
- Florida Building Code
- NSF/ANSI 347: Platinum Certified
- ENERGY STAR[®]
- California Title 24
- LEED / Green Globes
- CAN/CGSB-37.54-95. Type 2/Class B

Product Data Sheet Sarnafil® G 410-48 Feltback EnergySmart January 2022, Version 07.01 020905052160123002

PRODUCT INFORMATION

Composition / Manufacturing	High-quality, PVC membrane containi retardant, and fiberglass reinforceme top surface.	ng ultraviolet light stabilizers, flame nt with a unique lacquer coating on the
Recycled content	9% Pre-consumer, 1% Post-consumer	
Reinforcing Material	Fibreglass	
Packaging	1.2 mm (48 mil) Membrane* 3 m x 30 m (10 ft x 100 ft) roll, 165 kg 9 rolls per pallet * Made to order, minimum volume required, extende representative for further information.	
Appearance / Colour	Top: White, Reflective Grey, Tan, arBottom: Grey	nd Patina Green
Shelf Life	N/A	
Storage Conditions	Store rolls on pallets and fully protect tarpaulins. Unvented polyethylene tar accumulation of moisture beneath the conditions that may affect the ease of	e tarpaulin in certain weather
Overall Thickness	1.2 mm (48 mil), minimum thickness 1.1 mm (45 mil)	(ASTM D-751) (ASTM Type II D-4434 Spec. Requirement)
Thickness Above Scrim	0.56 mm (22 mil) 0.41 mm (16 mil)	(ASTM D-7635) (ASTM Type II D-4434 Spec. Requirement)
Felt Weight	305 g/m² (9 oz/yd²)	

TECHNICAL INFORMATION

Resistance to Static Puncture	Pass	(ASTM D-5602)
	15 kg (33 lbf)	(ASTM Type II D-4434 Spec. Requirement)
Resistance to Dynamic Puncture	Pass	(ASTM D-5635)
	10 J (7.3 ft-lbf)	(ASTM Type II D-4434 Spec. Requirement)
Tensile Strength	267 N (60 lbf)	(ASTM D-751)
	245 N (55 lbf)	(ASTM Type II D-4434 Spec. Requirement)
Elongation	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 Mach	ine Direction
Linear Dimensional Change	-0.02%	(ASTM D-1204)
	0.1%	(ASTM Type II D-4434 Spec. Requirement)
Tear Strength	67 N (15 lbf)	(ASTM D-1004)
	45 N (10 lbf)	(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 no	ot seam failure
Low Temperature Flexibility	Pass	(ASTM D-2136)
	Pass -40 °C (-40 °F)	(ASTM Type II D-4434 Spec. Requirement)



Product Data Sheet Sarnafil® G 410-48 Feltback EnergySmart January 2022, Version 07.01 020905052160123002

Retention of Properties after Heat Ageing	Elongation, % of origina Tensile strength, % of c Elongation, % of origina	al: Pass original: 90	(ASTM D- (ASTM Type II D-4434 Spec. Requiren	
Resistance to UV Exposure	10,000 hours 5,000 hours		(ASTM G- (ASTM Type II D-4434 Spec. Requiren	
	Cracking (7x magnification)	None		
	Discoloration (by observation)	Negligible		
	Crazing (7x magnification)	None		
Weight Change after Immersion in Water	1.9% <u>+</u> 3.0%		(ASTM D- (ASTM Type II D-4434 Spec. Requiren	
Solar Reflectance	EnergySmart Colors	Initial Solar Reflectance ¹	3-Year Solar Reflectance ¹	
	EnergySmart White ²	0.85	0.74	
	EnergySmart Tan ²	0.73	0.65	
	EnergySmart Reflective Grey ²	0.73	0.66	
	EnergySmart Patina Green ³	0.55	0.46	
	applications	een Globes, and Californ	ia's Title 24 criteria for Low and Steep Slope ia's Title 24 criteria for Steep Slope applications	5
Thermal Emittance	EnergySmart Colors	Initial Therma Emittance ¹	l 3-Year Thermal Emittance ¹	
	EnergySmart White ²	0.86	0.84	
	EnergySmart Tan ²	0.85	0.86	
	EnergySmart Reflective Grey ²	0.89	0.88	
	EnergySmart Patina Green ³	0.86	0.85	
	applications	een Globes, and Californ	ide Method ia's Title 24 criteria for Low and Steep Slope ia's Title 24 criteria for Steep Slope applications	;

Product Data Sheet Sarnafil® G 410-48 Feltback EnergySmart January 2022, Version 07.01 020905052160123002



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EnergySmart Colors	Initial Solar <u>Reflectance Index¹</u>	3-Year Solar Reflectance Index ¹
EnergySmart White ²	107	90
EnergySmart Tan ²	89	78
EnergySmart Reflective Grey ²	90	80
EnergySmart Patina Green ³	64	51

¹ Solar Reflectance Index calculated according to ASTM E1980.

² Meets ENERGY STAR[®], LEED, Green Globes, and California's Title 24 criteria for Low and Steep Slope applications.

³ Meets ENERGY STAR[®], LEED, Green Globes, and California's Title 24 criteria for Steep Slope applications.

BASIS OF PRODUCT DATA

Product properties are typically averages, obtained under laboratory conditions. Reasonable variations can be expected on-site due to local factors, including environment, preparation, application, curing and test methods.

OTHER DOCUMENTS

AVAILABILITY

Sarnafil[®] S 327-72 EnergySmart is available directly from Sika Canada Authorized Applicators when used within a Sika[®] Sarnafil[®] Roofing or Waterproofing System. Contact Sika Canada or visit our website at www.sika.ca for further information.

WARRANTY

Upon successful completion of the installed roof by the Sika Authorized Applicator, Sika Canada will provide a warranty to the Building Owner via the Sika Authorized Applicator

LIMITATIONS

- Ambient Air Temperature -20 °C (-4 °F) min. / +60 °C (140 °F) max. during application.
- Substrate Temperature -30 °C (-22 °F) min. / +60 °C (140 °F) max. during application.
- Not to be applied directly to polystyrene products.
- Sarnafil[®] membranes are incompatible with asphalt, coal tar, heavy oils, roofing cements, creosote and some preservative materials.

ENVIRONMENT, HEALTH & SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safetyrelated data.

APPLICATION INSTRUCTIONS

APPLICATION

Sarnafil[®] G 410-48 Feltback EnergySmart 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 45 kg (100 lb) 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[®] systems should include regular inspections of flashings, drains, and termination sealants at least twice a year and after each storm.

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for exact product data and uses.

Product Data Sheet Sarnafil® G 410-48 Feltback EnergySmart January 2022, Version 07.01 020905052160123002



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LEGAL NOTES

The information, and in particular, the recommendations relating to the application and enduse 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 recommendations, or from any other advice offered. The information contained herein does not relieve the user of the products from testing them for the intended application and purpose. 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 or may be downloaded from our website at: www.sika.ca

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Other locations

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Product Data Sheet Sarnafil® G 410-48 Feltback EnergySmart January 2022, Version 07.01 020905052160123002

5/5

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