



PRODUCT DATA SHEET

Sarnafil® G 410-72

PVC THERMOPLASTIC MEMBRANE

PRODUCT DESCRIPTION

Sarnafil® G 410-72 is a PVC thermoplastic membrane produced with an integral fiberglass mat reinforcement for excellent dimensional stability, 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 410-72 is used in adhered applications with various adhesives over various substrates.

AREAS OF APPLICATION

- New Roofs
- Reroofs
- Recovers

CHARACTERISTICS / ADVANTAGES

- 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
- CGSB-37.54-95. Type 2/Class B
- CSA-A123.21

PRODUCT INFORMATION

Composition / Manufacturing	High-quality, PVC membrane containing ultraviolet light stabilizers, flame retardant, and fiberglass reinforcement with a unique lacquer coating on the top surface.
Reinforcing Material	Fibreglass
Packaging	1.8 mm (72 mil) Membrane 2 m x 15 m (6.56 ft x 49.2 ft) roll, 72 kg (159 lbs) per roll, 19 rolls per pallet
Appearance / Colour	<ul style="list-style-type: none">▪ Top: Copper Brown, Evergreen, and Lead Grey▪ Bottom: Grey
Shelf Life	N/A

Storage Conditions	Store rolls on pallets and fully protected from the weather with clean canvas tarpaulins. Unvented polyethylene tarpaulins are unacceptable due to the accumulation of moisture beneath the tarpaulin in certain weather conditions that may affect membrane weldability.	
Overall Thickness	1.8 mm (72 mil) (minimum thickness) 1.1 mm (45 mil)	(ASTM D-751) (ASTM Type II D-4434 Spec. Requirement)
Thickness Above Scrim	0.9 mm (35 mil) 0.4 mm (16 mil)	(ASTM D-7635) (ASTM Type II D-4434 Spec. Requirement)

TECHNICAL INFORMATION

Resistance to Static Puncture	Pass 15 kg (33 lbf)	(ASTM D-5602) (ASTM Type II D-4434 Spec. Requirement)
Resistance to Dynamic Puncture	Pass 10 J (7.3 ft-lbf)	(ASTM D-5635) (ASTM Type II D-4434 Spec. Requirement)
Tensile Strength	445 N (100 lbf) 245 N (55 lbf)	(ASTM D-751) (ASTM Type II D-4434 Spec. Requirement)
Elongation at Break	250 & 220% MD & CMD ¹ 250 & 220% MD & CMD ¹	(ASTM D-751) (ASTM Type II D-4434 Spec. Requirement)
¹ MD = Machine Direction, CMD = Cross Machine Direction.		
Linear Dimensional Change	-0.01% 0.1%	(ASTM D-1204) (ASTM Type II D-4434 Spec. Requirement)
Tear Strength	91 N (20.5 lbf/in) 45 N (10 lbf/in)	(ASTM D-1004) (ASTM Type II D-4434 Spec. Requirement)
Seam Strength	Pass 75% of original ²	(ASTM D-751) (ASTM Type II D-4434 Spec. Requirement)
² Failure occurs through membrane rupture not seam failure.		
Low Temperature Flexibility	Pass Pass -40°C (-40°F)	(ASTM D-2136) (ASTM Type II D-4434 Spec. Requirement)
Retention of Properties after Heat Ageing	Tensile Strength, % of original: Pass Elongation, % of original: Pass Tensile Strength, % of original: 90 Elongation, % of original: 90	(ASTM D-3045) (ASTM D-751) (ASTM Type II D-4434 Spec. Requirement)
Resistance to UV Exposure	10,000 hours 5,000 hours Cracking (7x magnification) Discolouration (by observation) Crazing (7x magnification)	(ASTM G-154) (ASTM Type II D-4434 Spec. Requirement) None Negligible None
Weight Change after Immersion in Water	1.8% ± 3.0%	(ASTM D-570) (ASTM Type II D-4434 Spec. Requirement)

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® G 410-72 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

The Ambient Air Temperature -20°C (-4°F) min. / +60°C (140°F) max. during application.

The 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 safety-related data.

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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 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.

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 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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Product Data Sheet

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