

PRODUCT DATA SHEET

Sarnafil® S 327-80 Feltback EnergySmart

80 mil thick PVC thermoplastic membrane

PRODUCT DESCRIPTION

Sarnafil® S 327-80 Feltback EnergySmart Roof Membrane is a PVC thermoplastic membrane produced with an integral polyester reinforcement for high strength, 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

Used in mechanically attached applications with various fastening methods, over various substrates. It can also be used in adhered applications to approved substrates.

AREAS OF APPLICATION

- New Roofs
- Reroofs
- Recovers

CHARACTERISTICS / ADVANTAGES



- Highly reflective
- Excellent tear strength resistance
- 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
- California Title 24
- LEED / Green Globes
- CGSB-37.54-95. Type 4/Class B
- CSA-A123.21

PRODUCT INFORMATION

Composition / Manufacturing	High-quality, PVC membrane containing ultraviolet light stabilizers, flame retardant and polyester scrim reinforcement with a unique lacquer coating on the top surface.			
Recycled content	9% Pre-consumer, 1% Post-consumer			
Reinforcing Material	Polyester			
Packaging	80 mil (2.0 mm) Membrane 10 ft x 80 ft (3 m x 24 m) roll, 459 lbs (208 kg) per roll, 8 rolls per pallet			
Shelf Life	N/A	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.			
Appearance / Colour	Top: White, Tan, and Reflective GrayBottom: Gray			
Overall Thickness	80 mil (minimum thickness) 45 mil	(ASTM D-751) (ASTM Type III D-4434 Spec. Requirement)		
Thickness Above Scrim	40 mil 16 mil	(ASTM D-7635) (ASTM Type III D-4434 Spec. Requirement)		
Felt Weight	9 oz/yd²			
TECHNICAL INFORMATION	I			
Resistance to Static Puncture	Pass 33 lbf (15 kg)	(ASTM D-5602) (ASTM Type III D-4434 Spec. Requirement)		
Resistance to Dynamic Puncture	Pass 14.7 ft-lbf (10 J)	(ASTM D-5635) (ASTM Type III D-4434 Spec. Requirement)		
Tensile Strength	325 lbf (1445 N) 200 lbf (890 N)	(ASTM D-751) (ASTM Type III D-4434 Spec. Requirement)		
Elongation at Break	29.5 & 30.5% MD & CMD ¹ 15 & 15% MD & CMD ¹ ¹ MD = Machine Direction, CMD = Cross Machin	(ASTM D-751) (ASTM Type III D-4434 Spec. Requirement)		
Tear Strength	49 lbf (218 N) 45 lbf (200 N)	(ASTM D-751) (ASTM Type III D-4434 Spec. Requirement)		
Seam Strength	Pass 75% of original ²	(ASTM D-751) (ASTM Type III D-4434 Spec. Requirement)		
Linear Dimensional Change	-0.14% 0.5%	: seam failure. (ASTM D-1204) (ASTM Type III D-4434 Spec. Requirement)		



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Solar Reflectance	EnergySmart Colors	Initial Solar Reflectance ¹	3-Year Solar Reflectance ¹	
	EnergySmart White ²	0.84	0.76	
	EnergySmart Tan ²	0.73	0.65	
	EnergySmart Reflective Gray ²	0.73	0.66	
	 Solar Reflectance testing according to ASTM C1549. Meets LEED, Green Globes, and California's Title 24 criteria for Low and Steep Slope applications. 			
Solar Reflectance Index	EnergySmart Colors	Initial Solar Reflectance Index ¹	3-Year Solar Reflectance Index ¹	
	EnergySmart White ²	105	93	
	EnergySmart Tan ²	89	78	
	EnergySmart Reflective Gray ²	90	80	
	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.			
Thermal Emittance	EnergySmart Colors	Initial Thermal Emittance ¹	3-Year Thermal Emittance ¹	
	EnergySmart White ²	0.86	0.85	
	EnergySmart Tan ²	0.85	0.86	
	EnergySmart Reflective Gray ²	0.89	0.88	
	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.			
Low Temperature Flexibility	Pass Pass -40°F (-40°C)	(ASTM D-2136 (ASTM Type III D-4434 Spec. Requirement		
Weight Change after Immersion in Wa	ter 1.8% ± 3.0%	(ASTM T	(ASTM D-570) ype III D-4434 Spec. Requirement)	
Resistance to UV Exposure	10,000 hours 5,000 hours	(ASTM G-154) (ASTM Type III D-4434 Spec. Requirement)		
	Cracking (7x magnification)	None		
	Crazing (7x magnification)	None		
Retention of Properties after Heat Age			(ASTM D-751)	
	Elongation, % of original Tensile Strength, % of original Elongation, % or original Elongation,	original: 90 (ASTM T	(ASTM D-751) Type III D-4434 Spec. Requirement)	

BASIS OF PRODUCT DATA

methods.

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

Product Data Sheet

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FURTHER INFORMATION

AVAILABILITY

Sarnafil® S 327-80 Feltback 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 Canada Authorized Applicator, Sika Canada can provide a warranty to the Building Owner via the 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/Sikaplan 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.

APPLICATION INSTRUCTIONS

APPLICATION

Sarnafil S 327 is rolled out after proper preparation of the approved substrate and fastened to the roof deck with appropriate mechanically attached system with Sarnafasteners in accordance with Sika's technical requirements. Sarnafil S 327 seams are heat-welded together by trained operators using hot-air welding equipment. Different mechanically attached systems require different application methods. Please consult Sika's Specifications or Applicator Handbook for detailed installation procedures.

Sika Canada Inc.

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Other locations

Boisbriand (Quebec) Brantford; Cambridge; Sudbury; Toronto (Ontario) Edmonton (Alberta) Surrey (British Columbia)

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

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 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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