

PRODUCT DATA SHEET

Sarnafil® S 327-60 EnergySmart

PVC THERMOPLASTIC ROOF MEMBRANE

PRODUCT DESCRIPTION

Sarnafil® S 327-60 EnergySmart is a PVC thermoplastic roof membrane produced with an integral polyester reinforcement for high strength, highly reflective, designed 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® S 327-60 EnergySmart is used in mechanically attached applications with various fastening methods, over various 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

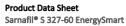
APPROVALS / CERTIFICATES

- FM Global
- Underwriters Laboratories
- Underwriters Laboratories of Canada
- ICC Code Compliance ESR 1157
- Miami-Dade County
- Florida Building Code
- NSF/ANSI 347: Platinum Certified
- ENERGY STAR®
- California Title 24
- LEED / Green Globes
- CGSB-37.54-95. Type 4/Class B
- CSA-A123.21

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PRODUCT INFORMATION

Composition / Manufacturing	High-quality, PVC thermoplastic roof 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	1.5 mm (60 mil) Membrane 3 m x 30 m (10 ft x 100 ft) roll, 177 kg (389 lb) per roll, 8 rolls per pallet 1.5 m x 30 m (5 ft x 100 ft) roll, 89 kg (195 lb) per roll, 12 rolls per pallet			
	Coverstrip: 20 cm x 30 m (8 ir	n x 100 ft) roll, 12 kg (25 lb) per roll, 25 per pallet		
Appearance / Colour	Top: White, Tan, and Reflective GreyBottom: Grey			
Shelf Life	Not applicable	Not applicable		
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	1.5 mm (60 mil) 1.14 mm (45 mil)	(ASTM D751) (ASTM Type III D4434 Spec. Requirement)		
Thickness Above Scrim	0.69 mm (27 mil) 0.40 mm (16 mil)	(-) (ASTM Type III D4434 Spec. Requirement)		
TECHNICAL INFORMATION				
Resistance to Static Puncture	Pass 15 kg (33 lbf)	(ASTM D5602) (ASTM Type III D4434 Spec. Requirement)		
Resistance to Dynamic Puncture	Pass 20 J (14.7 ft-lbf)	(ASTM D5635) (ASTM Type III D4434 Spec. Requirement)		
Tensile Strength	1356 N (305 lbf/in) 890 N (200 lbf/in)	(ASTM D751) (ASTM Type III D4434 Spec. Requirement)		
Elongation at Break	28.5 % & 29.5 % 15 % & 15 % ¹ M.D. = Machine Direction, C.M.D. = Cros	(ASTM D751), M. D. & C.M.D. ² (ASTM Type III D4434 Spec. Requirement)		
Linear Dimensional Change	-0.12 % 0.5 %	(ASTM D1204) (ASTM Type III D4434 Spec. Requirement)		
Tear Strength	213 N (48 lbf/in) 200 N (45 lbf/in)	(ASTM D1004) (ASTM Type III D4434 Spec. Requirement)		
Seam Strength	Pass 75 % of original ² ² Failure occurs through membrane ruptu	(ASTM D751) (ASTM Type III D4434 Spec. Requirement) ire not seam failure.		
Low Temperature Flexibility	Pass Pass	(ASTM D2136), -40 °C (-40 °F) (ASTM Type III D4434 Spec. Requirement)		



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Retention of Properties after Heat Ageing	Tensile Strength, % of	Pass	(ASTM D751)	
6	original	1 433	(//3/14/2/31)	
	Elongation, % of original	Pass	(ASTM D751)	
	Tensile Strength, % of	90	(ASTM Type III D443	4
	original		Spec. Requirement)	
	Elongation, % of original	90	(ASTM Type III D443	4
		<u> </u>	Spec. Requirement)	
Resistance to UV Exposure	10,000 hours		(ASTM (G154
	5,000 hours		(ASTM Type III D4434 Spec. Requirement	
	Cracking (7x magnificatio	n)	None	
	Discoloration (by observa	ation)	Negligible	
	Crazing (7x magnification)	None	
Weight Change after Immersion in Water	r 2.0 %		(ASTM I	 D570
	± 3.0 %		(ASTM Type III D4434 Spec. Requirement)	
Solar Reflectance	EnergySmart Colours	Initial Solar Reflectance ¹	3-Year Solar Reflectance ¹	
	EnergySmart White ²	0.84	0.76	
	EnergySmart	0.73	0.65	
	Tan ²	-		
	EnergySmart Reflective Grey ³	0.73	0.66	
	¹ Solar Reflectance testing according	g to ASTM C1549.		
	_	art Tan membranes	meet ENERGY STAR®, LEED, Green Globes, and olications.	
Thermal Emittance	EnergySmart Colours	Initial Therm	al 3-Year Thermal	
		Emittance ¹	Emittance ¹	
	EnergySmart White ²	0.86	0.85	
	EnergySmart	0.85	0.86	
	Tan ²			
	EnergySmart Reflective Grey ³	0.89	0.88	
	¹ Thermal Emittance testing accordi ² EnergySmart White and EnergySm California's Title 24 criteria for Low	art Tan membranes	meet ENERGY STAR®, LEED, Green Globes, and	
Solar Reflectance Index	EnergySmart Colours	Initial Solar Reflectance I	3-Year Solar Index Reflectance Index	
	EnergySmart White ¹	105	93	
	EnergySmart	89	78	
	Tan¹			

 ¹ EnergySmart White and EnergySmart Tan membranes meet ENERGY STAR®, LEED, Green Globes, and
 California's Title 24 criteria for Low and Steep Slope applications.
 ² EnergySmart Reflective Grey membrane meets LEED, Green Globes, and California's Title 24 criteria for Low



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and 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 327-60 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

- 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

This product is a manufactured article that does not require Safety Data Sheets to be marketed, transported or applied at the jobsite, according to the Hazardous Product Act - Section 2. Based on our current knowledge, this product is not classified as dangerous and does not contain any hazardous materials. Always wear personal protective equipment (including safety goggles and gloves) to manipulate and install Sika® products.

Sika Canada Inc.

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Other locations

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

APPLICATION INSTRUCTIONS

APPLICATION

Sarnafil® S 327-60 EnergySmart is rolled out after proper preparation of the approved substrate and attached to the roof deck with appropriate mechanically-attached system with Sarnafasteners in accordance with Sika's technical requirements. Sarnafil® S 327-60 EnergySmart 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.

MAINTENANCE

As a prudent preventative measure, Sika Canada recommends that the Owner or that the Owner's designated representative inspect the installed roof system for damage, flashings, plugged drains, weathered sealants, etc. 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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