

## PRODUCT DATA SHEET

# Sarnafil® S 327-60 Feltback EnergySmart

Sarnafil S 327 Roof Membrane is a PVC thermoplastic membrane

### PRODUCT DESCRIPTION

Sarnafil® S 327-60 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. Sarnafil® S 327-60 Feltback EnergySmart utilizes the Pro-Weld™ visual indicator to provide real-time feedback that the proper seam welding temperature and speed settings are being used during installation.

### USES

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
- Pro-Weld™ visual welding temperature indicator<sup>1</sup>

<sup>1</sup> Available on White, Gray and Tan membranes

### 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

<b>Chemical Base</b>	High-quality, PVC membrane containing ultraviolet light stabilizers, flame retardant and polyester scrim reinforcement with a unique lacquer coating on the top surface.	
<b>Recycled Content</b>	9% Pre-consumer, 1% Post-consumer	
<b>Reinforcing Material</b>	Polyester	
<b>Packaging</b>	<b>60 mil (1.5 mm) Membrane</b> 10 ft x 80 ft (3 m x 24 m) roll, 354 lbs (161 kg) per roll, 9 rolls per pallet	
<b>Appearance / Color</b>	<ul style="list-style-type: none"> <li>▪ Top: White, Tan, and Reflective Gray</li> <li>▪ Bottom: Gray</li> </ul>	
<b>Shelf Life</b>	N/A	
<b>Storage Conditions</b>	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.	
<b>Overall Thickness</b>	60 mil (minimum thickness) 45 mil	(ASTM D-751) (ASTM Type III D-4434 Spec. Requirement)
<b>Thickness Above Scrim</b>	27 mil 16 mil	(ASTM D-7635) (ASTM Type III D-4434 Spec. Requirement)
<b>Felt Weight</b>	9 oz/yd <sup>2</sup>	

## TECHNICAL INFORMATION

<b>Resistance to Static Puncture</b>	Pass 33 lbf (15 kg)	(ASTM D-5602) (ASTM Type III D-4434 Spec. Requirement)
<b>Resistance to Dynamic Puncture</b>	Pass 14.7 ft-lbf (20 J)	(ASTM D-5635) (ASTM Type III D-4434 Spec. Requirement)
<b>Tensile Strength</b>	305 lbf (1356 N) 200 lbf (890 N)	(ASTM D-751) (ASTM Type III D-4434 Spec. Requirement)
<b>Elongation at Break</b>	28.5 & 29.5% MD & CMD <sup>1</sup> 15 & 15% MD & CMD <sup>1</sup>	(ASTM D-751) (ASTM Type III D-4434 Spec. Requirement)
<sup>1</sup> MD = Machine Direction, CMD = Cross Machine Direction.		
<b>Linear Dimensional Change</b>	-0.12% 0.5%	(ASTM D-1204) (ASTM Type III D-4434 Spec. Requirement)
<b>Tear Strength</b>	48 lbf (213 N) 45 lbf (200 N)	(ASTM D-751) (ASTM Type III D-4434 Spec. Requirement)
<b>Seam Strength</b>	Pass 75% of original <sup>2</sup>	(ASTM D-751) (ASTM Type III D-4434 Spec. Requirement)
<sup>2</sup> Failure occurs through membrane rupture not seam failure.		
<b>Retention of Properties after Heat Ageing</b>	Tensile Strength, % of original: Pass Elongation, % of original: Pass Tensile Strength, % of original: 90 Elongation, % of original: 90	(ASTM D-751) (ASTM D-751) (ASTM Type III D-4434 Spec. Requirement)

<b>UV Exposure</b>	10,000 hours	(ASTM G-154)
	5,000 hours	(ASTM Type III D-4434 Spec. Requirement)
	Cracking (7x magnification)	None
	Crazing (7x magnification)	None

<b>Weight Change after Immersion in Water</b>	2.0% ± 3.0%	(ASTM D-570) (ASTM Type III D-4434 Spec. Requirement)
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<b>Solar Reflectance</b>	<b>EnergySmart Colors</b>	<b>Initial Solar Reflectance<sup>1</sup></b>	<b>3-Year Solar Reflectance<sup>1</sup></b>
	EnergySmart White <sup>2</sup>	0.84	0.76
	EnergySmart Tan <sup>2</sup>	0.73	0.65
	EnergySmart Reflective Gray <sup>2</sup>	0.73	0.66

<sup>1</sup> Solar Reflectance testing according to ASTM C1549.

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

<b>Thermal Emittance</b>	<b>EnergySmart Colors</b>	<b>Initial Thermal Emittance<sup>1</sup></b>	<b>3-Year Thermal Emittance<sup>1</sup></b>
	EnergySmart White <sup>2</sup>	0.86	0.85
	EnergySmart Tan <sup>2</sup>	0.85	0.86
	EnergySmart Reflective Gray <sup>2</sup>	0.89	0.88

<sup>1</sup> Thermal Emittance testing according to ASTM C1371, Slide Method.

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

<b>Solar Reflectance Index</b>	<b>EnergySmart Colors</b>	<b>Initial Solar Reflectance Index<sup>1</sup></b>	<b>3-Year Solar Reflectance Index<sup>1</sup></b>
	EnergySmart White <sup>2</sup>	105	93
	EnergySmart Tan <sup>2</sup>	89	78
	EnergySmart Reflective Gray <sup>2</sup>	90	80

<sup>1</sup> Solar Reflectance Index calculated according to ASTM E1980.

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

<b>Low Temperature Bend</b>	Pass Pass -40°F (-40°C)	(ASTM D-2136) (ASTM Type III D-4434 Spec. Requirement)
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## BASIS OF PRODUCT DATA

Results may differ based upon statistical variations depending upon mixing methods and equipment, temperature, application methods, test methods, actual site conditions and curing conditions.

## AVAILABILITY/WARRANTY

### 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.

## ENVIRONMENTAL, HEALTH AND SAFETY

For further information and advice regarding

transportation, handling, storage and disposal of chemical products, user should refer to the actual Safety Data Sheets containing physical, environmental, toxicological and other safety related data. User must read the current actual Safety Data Sheets before using any products. In case of an emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

## 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.

### MAINTENANCE

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

### OTHER RESTRICTIONS

See Legal Disclaimer.

### LEGAL DISCLAIMER

- KEEP CONTAINER TIGHTLY CLOSED
- KEEP OUT OF REACH OF CHILDREN
- NOT FOR INTERNAL CONSUMPTION
- FOR INDUSTRIAL USE ONLY
- FOR PROFESSIONAL USE ONLY

Prior to each use of any product of Sika Corporation, its subsidiaries or affiliates ("SIKA"), the user must always read and follow the warnings and instructions on the product's most current product label, Product Data Sheet and Safety Data Sheet which are available at [usa.sika.com](http://usa.sika.com) or by calling SIKA's Technical Service Department at 1-800-933-7452. Nothing contained in any SIKA literature or materials relieves the user of the obligation to read and follow the warnings and instructions for each SIKA product as set forth in the current product label, Product Data Sheet and Safety Data Sheet prior to use of the SIKA product.

SIKA warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within the product's shelf life. User determines suitability of product for intended use and assumes all risks. User's and/or buyer's sole

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Sika Corporation  
201 Polito Avenue

SIKA warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within the product's shelf life. User determines suitability of product for intended use and assumes all risks. User's and/or buyer's sole



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