

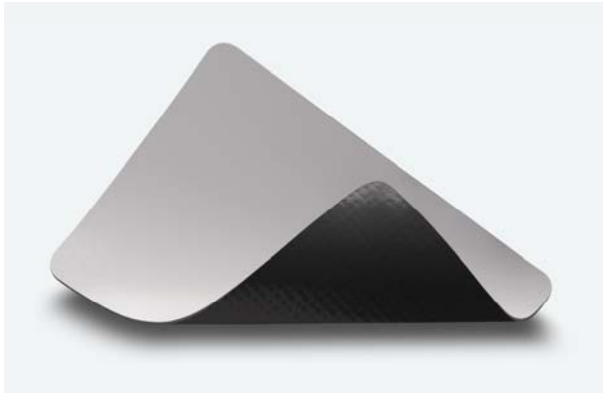
# Product Data Sheet

## Sarnafil S 327-18 EL



**Overview:** Sarnafil S 327 is a heat-weldable roof membrane made by spread-coating process, formulated for direct exposure and designed to use in all global climatic conditions. Sarnafil S 327 is produced with an integral polyester scrim reinforcement for high strength used within the Sarnafast spot fastening system and Sarnabar linear mechanically fastened system.

**Composition:** Sarnafil S 327 is a high-quality product made of virgin PVC, containing ultraviolet light stabilizers, flame retardant and polyester reinforcement scrim. Sarnafil S 327 has a unique lacquer coating applied to the top of the membrane to resist staining from airborne dirt and pollutants. The standard colour of the weathering surface is light grey, the underside colour is dark grey.



**Features:** Thanks to the unique spread-coating production process, Sarnafil S 327 has no built-in stress at the time of production and has a fully encapsulated reinforcement with no risk to delamination or water-wicking. Sarnafil S 327 can be produced also in a variety of colours.

**Standards:** Designed and manufactured to meet all international recognised standards.

**Packaging:** Sarnafil S 327 standard rolls are wrapped in a protective film.

**Installation:** Sarnafil S 327 is installed by Sarnafil authorized applicators only. Sarnafil S 327 is rolled out onto the insulation board or acceptable substrate, fastened to the roof deck with Sarnafast fastener and Sarnafil barbed washers (Sarnafast system) or with Sarnafast fasteners and Sarnabars (Sarnabar system) and heat-welded together by trained operators using hot air welding equipment approved by Sarnafil.

**Maintenance:** Sarnafil S 327 requires no maintenance. As a prudent preventative measure, Sarnafil recommends that the owner or its designated representative inspect the installed roof system for damage, plugged drains, weathered sealant, etc. at least twice a year and after each storm.

**Technical:** Sarnafil provides all required technical support via its responsible market organisations. Technical staff is available to advise the planners and applicators as the correct installation methods of Sarnafil S 327.

**Warranty:** World-wide 10 years material warranty.

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Property	Unit	Value	Standard
Raw material		PVC-P	
Color	. Surface	light grey	
	. Back side	dark grey	
Dimensions	. Width	m 2.0	
	. Thickness	mm 1.8	DIN 16 726
	. Length of standard roll	m 15	
	. Weight	kg/m <sup>2</sup> 2.20	DIN 53 352
Density		g/cm <sup>3</sup> 1.28	DIN 53 479
Tensile strength		N/mm <sup>2</sup> >1150	DIN EN ISO 527-3/5 (DIN 53 455)
Elongation at break		% >12	DIN EN ISO 527-3/5 (DIN 53 455)
Low temperature bending		°C -20	SIA V 280/3 (DIN 53 361)
Dimensional stability at elevated temperature (6h/80°C)		% -0.1	DIN 53 377
Water vapour permeability		mg/m <sup>2</sup> hPa 2.7 x 10 <sup>-2</sup>	SIA V 280/6
Air layer thickness equivalent to diffusion		m 27	SIA V 280/6
Vapour diffusion resistance factor (μ)		15000	SIA V 280/6
Thermal ageing (70d/70°C)			DIN 16 726
	. change of mass	% req. met	
	. change of elongation at break	% req. met	
Artificial weathering (UV A)		h req. met	SIA V 280/10
Water immersion (8 month 50 °C)			DIN 53 495
	. change of mass	% req. met	
	. visible changes	none	
	. low temperature bending	°C -20	
	. change of elongation at break	% req. met	
Permanent compression strength		N/mm <sup>2</sup>	SIA V 280/14
Impact strength		mm >850	DIN 16 726 / 5.12
Resistance to microorganisms			SIA V 280/17 (DIN 53 739)
	. change of mass	% req. met	
Joint strength (lap shear) . hand welded seam		req. met	DIN 16 726 / 5.7
	. hot wedge welded seam	req. met	DIN 16 726 / 5.7
Linear thermal expansion coefficient		1/K 16 x 10 <sup>-6</sup>	EMPA
Root resistance		req. met	DIN 4062 / 4.7
Fire classification		B2	DIN 4102 part 1
		15° EPS/MF	DIN 4102 part 7
		45° EPS/MF	DIN 4102 part 7

SIA = Swiss Engineer and Architect Association  
 DIN = German Industrial Standard  
 EN = European Standard  
 ISO = International Standards Organization  
 EMPA = Swiss Federal Institute for Materials Testing



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