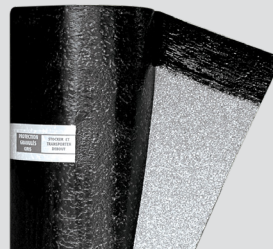


# SOPRALENE® FLAM 180 FR GR

Heat-Welded, Fire Retardant, Granulated SBS-Modified Bitumen Membrane



APPLICATIONS

ROOFING

PRODUCT DATA SHEET PDS10007 - REV 230802

## PRODUCT NUMBERS:

- 03961 - 32.8 ft x 39.4 in (10.0 x 1.0 m) - Roll Standard white granules (WH)
- 05003 - 32.8 ft x 39.4 in (10.0 x 1.0 m) - Roll Highly reflective white granules (SG)
- 03942 - 32.8 ft x 39.4 in (10.0 x 1.0 m) - Roll Smog reducing granules (ECO<sub>3</sub>)

Standard granule colors also include grey, tan and TV ALU. Non-standard granule colors include black, brown, dark tan, sienna, light grey, red, green and light blue. Non-standard granule colors require a 650-roll minimum order and extended lead times. Please contact your SOPREMA representative for details.

## DESCRIPTION & FEATURES:

**SOPRALENE FLAM 180 FR GR** (fire retardant, granules) is a SBS-modified bitumen membrane approved for use in roofing assemblies as a cap ply. **SOPRALENE FLAM 180 FR GR** is reinforced with a tough, dimensionally stable non-woven polyester mat that is saturated and coated on both sides with a proprietary formulation of elastomeric styrene-butadiene-styrene (SBS) polymer modified bitumen.

- SBS rubber polymer enhances the asphalt blend adding elongation, elasticity and flexibility to the sheet
- Reinforced with a non-woven polyester mat that increases the membrane's strength and puncture resistance
- Granule surfacing provides added resistance to weathering and foot traffic
- Backed with a polyolefin burn-off film to optimize heat welding
- Meets or exceeds requirements of ASTM D6164, Type I, Grade G

## USES:

**SOPRALENE FLAM 180 FR GR** is used as a component in the following systems.

USE	OVERLYING MATERIAL
Field Cap Ply <sup>1</sup>	N/A
Flashing Cap Ply <sup>1</sup>	N/A

<sup>1</sup> Refer to SOPREMA's SBS-Modified Bitumen Roofing Membrane Technical Manual

## APPLICATION:



Prior to installation, unroll **SOPRALENE FLAM 180 FR GR** onto the roof surface and allow to relax. Position **SOPRALENE FLAM 180 FR GR** in desired position and back roll the product. **SOPRALENE FLAM 180 FR GR** is then heat welded to approved substrates.

Refer to the SOPREMA SBS-Modified Bitumen Membrane Roofing Technical Manual for complete application guidelines.

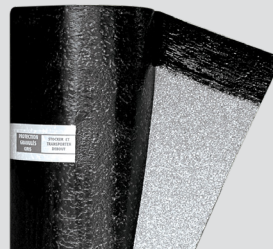
## STORAGE:

Store rolls in an upright position to prevent damage. Store in a clean, dry location and cover as necessary to protect from environmental damage such as extreme cold, heat or moisture.



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## TECHNICAL INFORMATION & TESTING:

### SHEET PROPERTIES

PROPERTY	VALUE
Elastomeric bitumen	Proprietary blend of bitumen and SBS polymers
ASTM Standard	D6164, Type I, Grade G
Reinforcement	Non-woven polyester
Top surfacing	Ceramic coated granules
Back surfacing	Polyolefin film
Selvage surfacing	Polyolefin film
Selvage width, in (mm)	3 (76)

### DIMENSIONS & MASS

PROPERTY	VALUE	ASTM TEST METHOD
Length, ft (m)	32.8 (10.0)	D5147
Width, in (m)	39.4 (1.0)	D5147
Coverage,* ft <sup>2</sup> (m <sup>2</sup> )	97.9 (9.1)	D5147
Roll weight, lb (kg)	109-118 (49.3-53.4)	D5147
Rolls per pallet	25	D5147
Pallet weight, lb (kg)	2,775-3,000 (1,255-1,358)	D5147
Thickness (minimum), mils (mm)	150 (3.8)	D5147
Thickness (nominal), mils (mm)	157 (4.0)	D5147
Thickness (selvage), mils (mm)	118 (3.0)	D5147
Net mass per unit area, lb/100 ft <sup>2</sup> (g/m <sup>2</sup> )	110 (5.371)	D5147
Bottom coating thickness, mils (mm)	≥ 40 (1.0)	D5147

\*Coverage rate as reported assumes installation using side and end lap recommendations.

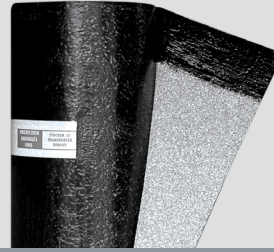
### PHYSICAL PROPERTIES

PROPERTY	MD	XMD	ASTM TEST METHOD
Peak load @ 0°F (-18°C), lbf/in (kN/m)	115 (20.1)	90 (15.8)	D5147
Elongation at peak load @ 0°F (-18°C), %	40	35	D5147
Peak load @ 73.4°F (23°C), lbf/in (kN/m)	85 (14.9)	65 (11.4)	D5147
Elongation at peak load @ 73.4°F (23°C), %	55	60	D5147
Ultimate Elongation @ 73.4°F (23°C), %	65	80	D5147
Tear strength @ 73.4°F (23°C), lbf (N)	125 (556)	85 (378)	D5147
Low temperature flexibility, °F (°C)	-15 (-26)	-15 (-26)	D5147
Dimensional stability, %	< 0.5	< 0.5	D5147
Compound stability, °F (°C)	240 (116)	240 (116)	D5147
Granule embedment, g	1.5 avg; 2.0 max for SG		D5147

Data is represented by average values, unless noted otherwise.

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## SUSTAINABILITY



### COOL ROOF RATING

PRODUCT	SOLAR REFLECTANCE		THERMAL EMITTANCE		SRI	
<b>SOPRALENE FLAM 180 FR GR</b> Standard white granules (WH)	0.26 initial	0.23 3 year	0.87 initial	0.90 3 year	25 initial	23 3 year
<b>SOPRALENE FLAM 180 FR GR</b> Highly reflective white granules (SG)	0.70 initial	0.62* 3 year	0.90 initial	0.90* 3 year	86 initial	75* 3 year
<b>SOPRALENE FLAM 180 FR GR</b> Smog reducing granules (ECO <sub>3</sub> )	0.10** initial	N/A 3 year	0.89** initial	N/A 3 year	6** initial	N/A 3 year

CRRC published results for Solar Reflectance, Thermal Emittance and SRI results were tested and evaluated in accordance with ASTM C1549, C1371, E1980, D7897 and the CRRC-1 Product Rating Program Manual.

\* CRRC Rapid Ratings. Refer to Cool Roof Ratings Council (CRRC).

\*\* Calculated using internal testing.

## TESTING & APPROVALS:



FLORIDA BUILDING CODE



NOA # 20-0825.11



## WARRANTY:

For more information refer to [www.SOPREMA.us](http://www.SOPREMA.us) or contact your SOPREMA representative.