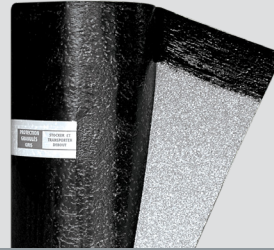


SOPRALENE® FLAM 180 FR+ GR

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



APPLICATIONS

ROOFING

PRODUCT DATA SHEET PDS10047 - REV 230626

PRODUCT NUMBERS:

- 01526 - **32.8 ft x 39.4 in (10.0 x 1.0 m) - Roll Standard white granules (WH)**
- 05013 - **32.8 ft x 39.4 in (10.0 x 1.0 m) - Roll Highly reflective white granules (SG)**

Contact SOPREMA® Customer Service or your sales representative for other granule color options and special order requirements.

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
- Has additional fire retardant to achieve UL and FM fire classification for steeper roof slope conditions
- 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 ¹	N/A
Flashing Cap Ply ¹	N/A

¹ 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.

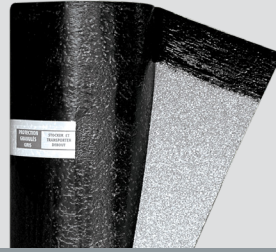
STORAGE:

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 ² (m ²)	97.9 (9.1)	D5147
Roll weight, lb (kg)	123 (55.7)	D5147
Rolls per pallet	25	D5147
Pallet weight, lb (kg)	3,125 (1,415)	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 ² (g/m ²)	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.

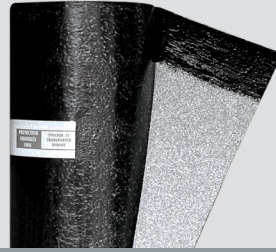
PHYSICAL PROPERTIES

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), %	35	40	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	
SOPRALENE FLAM 180 FR+ GR Standard white granules (WH)	0.26 initial	0.23 3 year	0.87 initial	0.90 3 year	25 initial	23 3 year
SOPRALENE FLAM 180 FR+ GR Highly reflective white granules (SG)	0.70 initial	0.62* 3 year	0.90 initial	0.90* 3 year	86 initial	75* 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).

TESTING & APPROVALS:



WARRANTY:

For more information refer to www.SOPREMA.us or contact your SOPREMA representative.