

SOPRALENE® 180 FR GR

Fire Retardant, Granulated SBS-Modified Bitumen Membrane



APPLICATIONS

ROOFING

PRODUCT DATA SHEET PDS10012 - REV 230627

PRODUCT NUMBERS:

- 01365 - **32.8 ft x 39.4 in (10.0 x 1.0 m)** - Roll
Standard white granules (WH)
- 05006 - **32.8 ft x 39.4 in (10.0 x 1.0 m)** - Roll
Highly reflective white granules (SG)
- 01323 - **32.8 ft x 39.4 in (10.0 x 1.0 m)** - Roll
Smog reducing granules (ECO₃)

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

DESCRIPTION & FEATURES:

SOPRALENE 180 FR GR (fire retardant, granules) is a SBS-modified bitumen membrane approved for use in roofing assemblies as a cap ply. **SOPRALENE 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
- Sanded-backside surfacing improves bonding strength between system layers
- Meets or exceeds requirements of ASTM D6164, Type I, Grade G

USES:

SOPRALENE 180 FR GR is used as a component in the following systems:

USE	OVERLYING MATERIAL
Field Cap Ply	N/A
Flashing Cap Ply	N/A

APPLICATION:



Prior to installation, unroll **SOPRALENE 180 FR GR** onto the roof surface and allow to relax. Place **SOPRALENE 180 FR GR** in desired position and back roll the product. Apply approved cold adhesive following manufacturer specifications. **SOPRALENE 180 FR GR** is then placed into the cold adhesive and rolled with a weighted roller to ensure adhesion.

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	Sanded
Selvage surfacing	Sanded
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)	115-120 (52.2-54.5)	D5147
Rolls per pallet	25	D5147
Pallet weight, lb (kg)	2,925-3,050 (1,328-1,385)	D5147
Thickness (minimum), mils (mm)	150 (3.8)	D5147
Thickness (nominal), mils (mm)	157 (4.0)	D5147
Thickness (selvage), mils (mm)	130 (3.3)	D5147
Net mass per unit area, lb/100 ft ² (g/m ²)	109 (5,322)	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 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 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
SOPRALENE 180 FR GR Smog reducing granules (ECO ₃)	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 or contact your SOPREMA representative.

