

# ELASTOPHENE®

## FLAM FR GR

ELASTOPHENE®  
FLAM FR GR

PRODUCT # 03864 (WH)  
05008 (SG)  
03805 (ECO<sub>3</sub>)

## PRODUCT DATA SHEET

### DESCRIPTION & FEATURES

ELASTOPHENE Flam FR GR (fire retardant, granulated) is an SBS-modified bitumen cap ply for use in approved multi-ply membrane and flashing assemblies. ELASTOPHENE Flam FR GR is composed of a proprietary formulation of elastomeric styrene butadiene-styrene (SBS) polymer modified bitumen and is reinforced with a high quality random glass fiber mat. The topside is surfaced with ceramic coated granules and underside are surfaced with polyolefin burn-off film to optimize heat welding.

*ELASTOPHENE Flam FR GR includes the standard white granules. Contact SOPREMA® Customer Service or your sales representative for other granule color options and special order requirements.*

### STORAGE & HANDLING

Store rolls on end and maintain in an upright position to prevent damage. Store rolls in a clean dry location and cover as necessary to protect rolls from environmental damage such as extreme cold, heat, or moisture. Monitor varying environmental conditions during storage, handling and application of ELASTOPHENE Flam FR GR.

### APPLICATION

Prior to installation, unroll ELASTOPHENE Flam FR GR onto the roof surface and allow to relax. Position ELASTOPHENE Flam FR GR in desired position and back roll the product. ELASTOPHENE Flam FR GR is then heat welded to approved substrates. Refer to the SOPREMA SBS Roofing Installation Guide for additional application guidelines.



### COOL ROOF RATING

PRODUCT	SOLAR REFLECTANCE		THERMAL EMITTANCE		SRI	
ELASTOPHENE Flam FR GR (WH) Standard white granules	0.26 initial	0.23 3 year	0.87 initial	0.90 3 year	25 initial	23 3 year
ELASTOPHENE Flam FR GR (SG) Highly reflective white granules	0.65 initial	0.62* 3 year	0.91 initial	0.91* 3 year	80 initial	75 3 year
ELASTOPHENE Flam FR GRE Smog reducing granules (ECO <sub>3</sub> )	0.10 initial**	N/A	0.89 initial**	N/A	6 initial**	N/A

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

\*\*Calculated using internal testing

APPLICATION



HEAT-WELDED

QUICK FACTS

ASTM STANDARD	LENGTH (ft)	WIDTH (in)	COVERAGE* (ft²)	THICKNESS (mils)	ROLL WEIGHT (lb)	ROLLS/ PALLET (pallet weight)
D6163 Type 1, Grade G	32.8 (10.0 m)	39.4 (1.0 m)	97.9 (9.1 m²)	140 (3.5 mm)	106 (48.1 kg)	25 (2,700 lb/ 1,225 kg)

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



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310 Quadral Drive, Wadsworth, Ohio 44281

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## TECHNICAL INFORMATION & TESTING

SHEET PROPERTIES	
Reinforcement	Glass fiber
Elastomeric bitumen	Proprietary blend of bitumen and SBS polymers
Top surfacing	Ceramic coated granules
Back surfacing	Polyolefin film
Selvage surface	Polyolefin film
Selvage width, in (mm)	3 (76)
End lap, in (mm)	6 (152)

DIMENSIONS & MASS		
PROPERTY		TEST METHOD
Thickness, mils (mm)	140 (3.5)	ASTM D5147
Thickness @ selvage, mils (mm)	98 (2.5)	ASTM D5147
Net mass per unit area, lb/100ft² (g/m²)	98.5 (4808)	ASTM D5147
Bottom coating thickness, mils (mm)	≥ 40 (1.0)	ASTM D5147

PHYSICAL PROPERTIES			
PROPERTY	MD	XMD	TEST METHOD
Peak load @ 0°F (-18°C), lbf/in (kN/m)	110 (19.3)	95 (16.6)	ASTM D5147
Elongation at peak load @ 0°F (-18°C), %	4	4	ASTM D5147
Peak load @ 73.4°F (23°C), lbf/in (kN/m)	50 (8.8)	40 (7.0)	ASTM D5147
Elongation at peak load @ 73.4°F (23°C), %	5	4	ASTM D5147
Ultimate elongation @ 73.4°F (23°C), %	50	50	ASTM D5147
Tear strength @ 73.4°F (23°C), lbf (N)	60 (267)	60 (267)	ASTM D5147
Low temperature flexibility, °F (°C)	-15 (-26)	-15 (-26)	ASTM D5147
Dimensional stability, %	< 0.1	< 0.1	ASTM D5147
Compound stability, °F (°C)	250 (121)	250 (121)	ASTM D5147
Granule embedment, g	1.5 avg; 2.0 max for SG		ASTM D5147
Cyclic fatigue, condition 4	Pass		ATSM D5147

\* Data is represented by average values, unless noted otherwise.

## TESTING & APPROVALS



## PRODUCT DATA SHEET

### DESCRIPTION & FEATURES

ELASTOPHENE FR GR (fire retardant, granulated) is an SBS-modified bitumen cap ply for use in approved multi-ply membrane and flashing assemblies. ELASTOPHENE FR GR is composed of a proprietary formulation of elastomeric styrene-butadiene-styrene (SBS) polymer modified bitumen and is reinforced with a high quality random glass fiber mat. The topside is surfaced with ceramic coated granules and the underside is surfaced with fine mineral aggregate to facilitate cold adhesive and hot asphalt applications.

*ELASTOPHENE FR GR includes the standard white granules. Contact SOPREMA® Customer Service or your sales representative for other granule color options and special order requirements.*

### STORAGE & HANDLING

Store rolls on end and maintain in an upright position to prevent damage. Store rolls in a clean dry location and cover as necessary to protect rolls from environmental damage such as extreme cold, heat, or moisture. Monitor varying environmental conditions during storage, handling and application of ELASTOPHENE FR GR.

### APPLICATION

Prior to installation, unroll ELASTOPHENE FR GR onto the roof surface and allow to relax. Place ELASTOPHENE FR GR in desired position and back roll the product. Apply approved cold adhesive or hot asphalt following manufacturer specifications. ELASTOPHENE FR GR is then rolled into the cold adhesive or hot asphalt and subsequently broomed in if utilizing hot asphalt or cold adhesives. Refer to the SOPREMA SBS Roofing Installation Guide for additional application guidelines.



APPLICATION



COLD ADHESIVE



HOT ASPHALT

### COOL ROOF RATING

PRODUCT	SOLAR REFLECTANCE		THERMAL EMITTANCE		SRI	
ELASTOPHENE FR GR Standard white granules (WH)	0.26 initial	0.25 3 year	0.88 initial	0.90 3 year	25 initial	23 3 year
ELASTOPHENE FR GR Highly reflective white granules (SG)	0.65 initial	0.62* 3 year	0.91 initial	0.91* 3 year	81 initial	75 3 year
ELASTOPHENE FR GR Smog reducing granules (ECO <sub>3</sub> )	0.10 initial	pending	0.89 initial	pending	6 initial	pending

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

\*\*Calculated using internal testing

QUICK FACTS

ASTM STANDARD	LENGTH (ft)	WIDTH (in)	COVERAGE* (ft <sup>2</sup> )	THICKNESS (mils)	ROLL WEIGHT (lb)	ROLLS/PALLET (pallet weight)
D6163 Type 1, Grade G	32.8 (10.0 m)	39.4 (1.0 m)	97.9 (9.1 m <sup>2</sup> )	140 (3.5 mm)	107 (48.5 kg)	30 (3,260 lb/ 1,479 kg)

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



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## TECHNICAL INFORMATION & TESTING

SHEET PROPERTIES	
Reinforcement	Glass fiber
Elastomeric bitumen	Proprietary blend of bitumen and SBS polymers
Top surfacing	Ceramic coated granules
Back surfacing	Sanded
Selvage surface	Sanded
Selvage width, in (mm)	3 (76)
End lap, in (mm)	6 (152)

DIMENSIONS & MASS		
PROPERTY		TEST METHOD
Thickness, mils (mm)	140 (3.5)	ASTM D5147
Thickness @ selvage, mils (mm)	110 (2.8)	ASTM D5147
Net mass per unit area, lb/100 ft <sup>2</sup> (g/m <sup>2</sup> )	99.4 (4853)	ASTM D5147

PHYSICAL PROPERTIES			
PROPERTY	MD	XMD	TEST METHOD
Peak load @ 0°F (-18°C), lbf/in (kN/m)	110 (19.3)	95 (16.6)	ASTM D5147
Elongation at peak load @ 0°F (-18°C), %	4	4	ASTM D5147
Peak load @ 73.4°F (23°C), lbf/in (kN/m)	50 (8.8)	40 (7.0)	ASTM D5147
Elongation at peak load @ 73.4°F (23°C), %	5	4	ASTM D5147
Ultimate elongation @ 73.4°F (23°C), %	50	50	ASTM D5147
Tear strength @ 73.4°F (23°C), lbf (N)	60 (267)	60 (267)	ASTM D5147
Low temperature flexibility, °F (°C)	-15 (-26)	-15 (-26)	ASTM D5147
Dimensional stability, %	< 0.1	< 0.1	ASTM D5147
Compound stability, °F (°C)	250 (121)	250 (121)	ASTM D5147
Granule embedment, g	< 1.5 avg; 2.0 max for SG		ASTM D5147
Cyclic fatigue, condition 4	Pass		ASTM D5849

\* Data is represented by average values, unless noted otherwise.

## TESTING & APPROVALS



# SOPRALENE®

## 180 FR GR

SOPRALENE® 180 FR GR  
PRODUCT # 01365 (WH)  
05006 (SG)  
01323 (ECO3)

## PRODUCT DATA SHEET

### DESCRIPTION & FEATURES

SOPRALENE 180 FR GR (fire retardant, granulated) is an SBS-modified bitumen cap ply for use in approved multi-ply membrane and flashing assemblies. SOPRALENE 180 FR GR is composed of a proprietary formulation of elastomeric styrene-butadiene-styrene (SBS) polymer modified bitumen and is reinforced with a tough, dimensionally stable non-woven polyester mat. The topside is surfaced with ceramic coated granules and the underside is surfaced with fine mineral aggregate to facilitate cold adhesive and hot asphalt applications.

*SOPRALENE 180 FR GR includes the standard white granules. Contact SOPREMA® Customer Service or your sales representative for other granule color options and special order requirements.*

### STORAGE & HANDLING

Store rolls on end and maintain in an upright position to prevent damage. Store rolls in a clean dry location and cover as necessary to protect rolls from environmental damage such as extreme cold, heat, or moisture. Monitor varying environmental conditions during storage, handling and application of SOPRALENE 180 FR GR.

### 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 or hot asphalt following manufacturer specifications. SOPRALENE 180 FR GR is then rolled into the cold adhesive or hot asphalt and subsequently broomed in if utilizing hot asphalt or cold adhesives. Refer to the SOPREMA SBS Roofing Installation Guide for additional application guidelines.



### COOL ROOF RATING

PRODUCT	SOLAR REFLECTANCE		THERMAL EMITTANCE		SRI	
SOPRALENE 180 FR GR Standard white granules (WH)	0.27 initial	0.24 3 year	0.87 initial	0.91 3 year	27 initial	25 3 year
SOPRALENE 180 FR GR Highly reflective white granules (SG)	0.66 initial	0.62* 3 year	0.91 initial	0.91* 3 year	81 initial	75 3 year
SOPRALENE 180 FR GR Smog reducing granules (ECO3)	0.10 initial	N/A	0.89 initial**	N/A	6 initial**	N/A

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

\*\*Calculated using internal testing

APPLICATION



COLD ADHESIVE



HOT ASPHALT

QUICK FACTS

ASTM STANDARD	LENGTH (ft)	WIDTH (in)	COVERAGE* (ft²)	THICKNESS (mils)	ROLL WEIGHT (lb)	ROLLS/ PALLET (pallet weight)
D6164 Type 1, Grade G	32.8 (10.0 m)	39.4 (1.0 m)	97.9 (9.1 m²)	160 (4.0 mm)	117 (53.1 kg)	25 (2,977 lb/ 1,350 kg)

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



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## TECHNICAL INFORMATION & TESTING

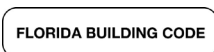
SHEET PROPERTIES	
Reinforcement	Non-woven polyester
Elastomeric bitumen	Proprietary blend of bitumen and SBS polymers
Surfacing	Ceramic coated granules
Back surfacing	Sanded
Selvage surface	Sanded
Side lap, in (mm)	3 (76)
End lap, in (mm)	6 (152)

DIMENSIONS & MASS		
PROPERTY		TEST METHOD
Thickness, mils (mm)	160 (4.0)	ASTM D5147
Thickness @ selvage, mils (mm)	130 (3.3)	ASTM D5147
Net mass per unit area, lb/100ft <sup>2</sup> (g/m <sup>2</sup> )	109 (5322)	ASTM D5147

PHYSICAL PROPERTIES			
PROPERTY	MD	XMD	TEST METHOD
Peak load @ 0°F (-18°C), lbf/in (kN/m)	115 (4.0)	90 (15.8)	ASTM D5147
Elongation at peak load @ 0°F (-18°C), %	35	40	ASTM D5147
Peak load @ 73.4°F (23°C), lbf/in (kN/m)	85 (14.9)	65 (11.4)	ASTM D5147
Elongation at peak load @ 73.4°F (23°C), %	55	60	ASTM D5147
Ultimate elongation @ 73.4°F (23°C), %	65	80	ASTM D5147
Tear strength @ 73.4°F (23°C), lbf (N)	125 (556)	85 (378)	ASTM D5147
Low temperature flexibility, °F (°C)	-15 (-26)	-15 (-26)	ASTM D5147
Dimensional stability, %	< 0.5	< 0.5	ASTM D5147
Compound stability, °F (°C)	240 (116)	240 (116)	ASTM D5147
Granule embedment, g	1.5 avg; 2.0 max for SG		ASTM D5147
Cyclic fatigue, condition 5	Pass		ASTM D5849

\* Data is represented by average values, unless noted otherwise.

## TESTING & APPROVALS





# SOPRALENE®

## FLAM 180 FR GR

SOPRALENE®  
FLAM 180 FR GR  
PRODUCT # 03961 (WH)  
05003 (SG)  
03942 (ECO3)

## PRODUCT DATA SHEET

### DESCRIPTION & FEATURES

SOPRALENE Flam 180 FR GR (fire retardant, granulated) is an SBS-modified bitumen cap ply for use in approved multi-ply membrane and flashing assemblies. SOPRALENE Flam 180 FR GR is composed of a proprietary formulation of elastomeric styrene-butadiene-styrene (SBS) polymer modified bitumen and is reinforced with a tough, dimensionally stable non-woven polyester mat. The topside is surfaced with ceramic coated granules and underside is surfaced with polyolefin burn-off film to optimize heat welding.

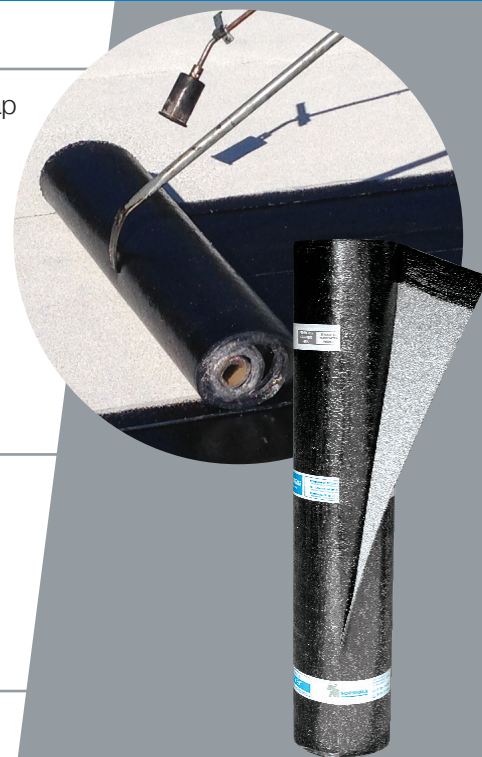
*SOPRALENE Flam 180 FR GR includes the standard white granules. Contact SOPREMA® Customer Service or your sales representative for other granule color options and special order requirements.*

### STORAGE & HANDLING

Store rolls on end and maintain in an upright position to prevent damage. Store rolls in a clean dry location and cover as necessary to protect rolls from environmental damage such as extreme cold, heat, or moisture. Monitor varying environmental conditions during storage, handling and application of SOPRALENE Flam 180 FR GR.

### 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 Roofing Installation Guide for additional application guidelines.



APPLICATION



HEAT-WELDED

### COOL ROOF RATING

PRODUCT	SOLAR REFLECTANCE		THERMAL EMITTANCE		SRI	
SOPRALENE Flam 180 FR GR Standard white granules (WH)	0.27 initial	0.24 3 year	0.87 initial	0.90 3 year	27 initial	234 3 year
SOPRALENE Flam 180 FR GR Highly reflective white granules (SG)	0.66 initial	0.62* 3 year	0.91 initial	0.91* 3 year	81 initial	75 3 year
SOPRALENE Flam 180 FR GR Smog reducing granules (ECO3)	0.10 initial**	N/A	0.89 initial**	N/A	6 initial**	N/A

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

\*\*Calculated using internal testing

QUICK FACTS

ASTM STANDARD	LENGTH (ft)	WIDTH (in)	COVERAGE* (ft²)	THICKNESS (mils)	ROLL WEIGHT (lb)	ROLLS/ PALLET (pallet weight)
D6164 Type 1, Grade G	32.8 (10.0 m)	39.4 (1.0 m)	97.9 (9.1 m²)	160 (4.0 mm)	118 (53.5 kg)	25 (3,000 lb/ 1,361 kg)

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



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## TECHNICAL INFORMATION & TESTING

SHEET PROPERTIES	
Reinforcement	Non-woven polyester
Elastomeric bitumen	Proprietary blend of bitumen and SBS polymers
Top surfacing	Ceramic coated granules
Back surfacing	Polyolefin film
Selvage surface	Polyolefin film
Selvage width, in (mm)	3 in (76 mm)
End lap, in (mm)	6 in (152 mm)

DIMENSIONS & MASS		
PROPERTY		TEST METHOD
Thickness, mils (mm)	160 (4.0)	ASTM D5147
Thickness @ selvage, mils (mm)	118 (3.0)	ASTM D5147
Net mass per unit area, lb/100ft <sup>2</sup> (g/m <sup>2</sup> )	110 (5371)	ASTM D5147
Bottom coating thickness, mils (mm)	≥ 40 (1.0)	ASTM D5147

PHYSICAL PROPERTIES			
PROPERTY	MD	XMD	TEST METHOD
Peak load @ 0°F (-18°C), lbf/in (kN/m)	115 (20.1)	90 (15.8)	ASTM D5147
Elongation at peak load @ 0°F (-18°C), %	35	40	ASTM D5147
Peak load @ 73.4°F (23°C), lbf/in (kN/m)	85 (14.9)	65 (11.4)	ASTM D5147
Elongation at peak load @ 73.4°F (23°C), %	55	60	ASTM D5147
Ultimate elongation @ 73.4°F (23°C), %	65	80	ASTM D5147
Tear strength @ 73.4°F (23°C), lbf (N)	125 (556)	85 (378)	ASTM D5147
Low temperature flexibility, °F (°C)	-15 (-26)	-15 (-26)	ASTM D5147
Dimensional stability, %	< 0.5	< 0.5	ASTM D5147
Compound stability, °F (°C)	240 (116)	240 (116)	ASTM D5147
Granule embedment, g	< 1.5 avg; 2.0 max SG		ASTM D5147
Cyclic fatigue, condition 5	Pass		ASTM D5849

\* Data is represented by average values, unless noted otherwise.

## TESTING & APPROVALS

