## ELASTOPHENE® FR GR

Fire Retardant, Granulated SBS-Modified Bitumen Membrane

PRODUCT DATA SHEET PDS10030 - REV 230621

### **PRODUCT NUMBERS:**

- 01159 32.8 ft x 39.4 in (10.0 x 1.0 m) Roll Standard white granules (WH)
- 05016 32.8 ft x 39.4 in (10.0 x 1.0 m) Roll Highly reflective white granules (SG)
- 01103 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:**

**ELASTOPHENE FR GR** (fire retardant, granulated) is a SBS-modified bitumen membrane approved for use in roofing assemblies as a cap ply. **ELASTOPHENE FR GR** is reinforced with a glass scrim 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 glass scrim that increases the membrane's strength and durability
- Granule surfacing provides added resistance to weathering and foot traffic
- Sanded-backside surfacing improves bonding strength between system layers
- $\bullet$  Meets or exceeds requirements of ASTM D6163, Type I, Grade G

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### USES:

**ELASTOPHENE FR GR** is used as a component in the following systems:

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

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

### **APPLICATION:**



COLD ADHESIVE

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 following manufacturer specifications. **ELASTOPHENE 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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ROOFING

### **TECHNICAL INFORMATION & TESTING:**

SHEET PROPERTIES					
PROPERTY	VALUE				
Elastomeric bitumen	Proprietary blend of bitumen and SBS polymers				
ASTM Standard	D6163, Type I, Grade G				
Reinforcement	Glass fiber				
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 <sup>2</sup> (m <sup>2</sup> )	97.9 (9.1)	D5147		
Roll weight; lb (kg)	103-107 (46.8-48.6)	D5147		
Rolls per pallet	30	D5147		
Pallet weight; lb (kg)	3,140-3,260 (1,427-1,481)	D5147		
Thickness (minimum), mils (mm)	130 (3.3)	D5147		
Thickness (nominal), mils (mm)	138 (3.5)	D5147		
Thickness (selvage), mils (mm)	106 (2.7)	D5147		
Net mass per unit area, lb/100 ft² (g/m²)	95 (4,627)	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)	110 (19.3)	95 (16.6)	D5147			
Elongation at peak load @ 0°F (-18°C), $\%$	4	4	D5147			
Peak load @ 73.4°F (23°C), lbf/in (kN/m)	50 (8.8)	40 (7.0)	D5147			
Elongation at peak load @ 73.4°F, $\%$	5	4	D5147			
Ultimate Elongation @ 73.4°F (23°C), $\%$	50	50	D5147			
Tear strength @ 73.4°F (23°C), lbf (N)	60 (267)	60 (267)	D5147			
Low temperature flexibility, ${\ensuremath{^\circ}}{\ensuremath{F}}$ ( ${\ensuremath{^\circ}}{\ensuremath{C}})$	-15 (-26)	-15 (-26)	D5147			
Dimensional stability, %	< 0.1	< 0.1	D5147			
Compound stability, °F (°C)	250 (121)	250 (121)	D5147			
Granule embedment, g	1.5 avg; 2.0	D5147				

Data is represented by average values, unless noted otherwise.

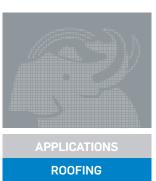


### **ELASTOPHENE**<sup>®</sup> **FR GR**

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#### **SUSTAINABILITY**

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

NOA # 20-0825.11

#### WARRANTY:

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



DBS

LARR # 26062

