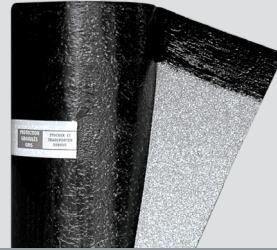


# ELASTOPHENE® FLAM HS FR GR

High-Strength, Fire Retardant, Granulated SBS-Modified Bitumen Membrane



APPLICATIONS

ROOFING

PRODUCT DATA SHEET PDS10070 - REV 230106

## PRODUCT NUMBERS:

- 01284 - 32.8 ft x 39.4 in (10.0 x 1.0 m) - Roll  
Standard white granules (WH)
- 05011 - 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:

**ELASTOPHENE FLAM HS FR GR** (high-strength, fire retardant, granules) is a SBS-modified bitumen membrane approved for use in roofing assemblies as a cap ply.

**ELASTOPHENE FLAM HR FR GR** is reinforced with a tough, dimensionally stable composite polyester/glass fiber reinforcement 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
- 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 D6163, Type III, Grade G

## USES:

**ELASTOPHENE FLAM HS 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:



HEAT  
WELDED

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

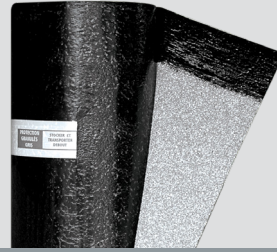
Refer to the SOPREMA SBS-Modified Bitumen Membrane Roofing Technical Manual for complete application guidelines.

## 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          | D6163, Type III, Grade G                      |
| Reinforcement          | Composite polyester/glass fiber               |
| 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)                                               | 95 (43.1)     | D5147            |
| Rolls per pallet                                                   | 25            | D5147            |
| Pallet weight, lb (kg)                                             | 2,375 (1,077) | D5147            |
| Thickness, mils (mm)                                               | 138 (3.5)     | D5147            |
| Thickness @ selvage, mils (mm)                                     | 98 (2.5)      | D5147            |
| Net mass per unit area, lb/100 ft <sup>2</sup> (g/m <sup>2</sup> ) | 88 (4,299)    | D5147            |
| Bottom coating thickness, mils (mm)                                | ≥ 40 (1.0)    | D5147            |

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

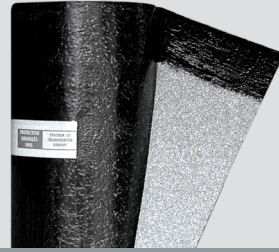
### PHYSICAL PROPERTIES

| PROPERTY                                   | MD                      | XMD           | ASTM TEST METHOD |
|--------------------------------------------|-------------------------|---------------|------------------|
| Peak load @ 0°F (-18°C), lbf/in (kN/m)     | 600 (105.1)             | 525 (91.9)    | D5147            |
| Elongation at peak load @ 0°F (-18°C), %   | 7                       | 7             | D5147            |
| Peak load @ 73.4°F (23°C), lbf/in (kN/m)   | 500 (87.6)              | 350 (61.3)    | D5147            |
| Elongation at peak load @ 73.4°F (23°C), % | 10                      | 10            | D5147            |
| Ultimate Elongation @ 73.4°F (23°C), %     | 30                      | 20            | D5147            |
| Tear strength @ 73.4°F (23°C), lbf (N)     | 1,100 (4,893.0)         | 725 (3,225.0) | 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           |               |
|--------------------------------------------------------------------|-------------------|-----------------|-------------------|-----------------|---------------|---------------|
| ELASTOPHENE FLAM HS FR GR<br>Standard white granules (WH)          | 0.26<br>initial   | 0.23<br>3 year  | 0.90<br>initial   | 0.89<br>3 year  | 25<br>initial | 23<br>3 year  |
| ELASTOPHENE FLAM HS FR GR<br>Highly reflective white granules (SG) | 0.70<br>initial   | 0.62*<br>3 year | 0.90<br>initial   | 0.90*<br>3 year | 86<br>initial | 75*<br>3 year |

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

## TESTING & APPROVALS:



FLORIDA BUILDING CODE



NOA # 20-0825.11



LARR # 26062

## WARRANTY:

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