

# ELASTOPHENE® FR GR

Fire Retardant, Granulated SBS-Modified Bitumen Membrane



APPLICATIONS

ROOFING

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
- Meets or exceeds requirements of ASTM D6163, Type I, Grade G

## 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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## 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 ft <sup>2</sup> (g/m <sup>2</sup> ) | 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, °F (°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 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            |               |
|--|-------------------|-----------------|-------------------|-----------------|----------------|---------------|
| <b>ELASTOPHENE FR GR</b><br>Standard white granules (WH)               | 0.26<br>initial   | 0.23<br>3 year  | 0.87<br>initial   | 0.90<br>3 year  | 25<br>initial  | 23<br>3 year  |
| <b>ELASTOPHENE FR GR</b><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 |
| <b>ELASTOPHENE FR GR</b><br>Smog reducing granules (ECO <sub>3</sub> ) | 0.10**<br>initial | N/A<br>3 year   | 0.89**<br>initial | N/A<br>3 year   | 6**<br>initial | N/A<br>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:



NOA # 20-0825.11



HUD MR 1340



LARR # 26062

## WARRANTY:

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