

ELASTOPHENE® HS FR GR

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



APPLICATIONS

ROOFING

PRODUCT DATA SHEET PDS10199 - REV 230621

PRODUCT NUMBERS:

- 01005 - 32.8 ft x 39.4 in (10.0 x 1.0 m) - Roll
Standard white granules (WH)
- 05015 - 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 HS FR GR (high-strength, fire retardant, granulated) is a SBS-modified bitumen membrane approved for use in roofing assemblies as a cap ply. **ELASTOPHENE HS FR GR** is reinforced with a composite polyester/glass fiber 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 composite mat 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 D6162, Type III, Grade G

USES:

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

USE	OVERLYING MATERIAL
Field Cap Ply ¹	N/A

¹ Refer to SOPREMA's SBS-Modified Bitumen Roofing Membrane Technical Manual

APPLICATION:



COLD
ADHESIVE

Prior to installation, unroll **ELASTOPHENE HS FR GR** onto the roof surface and allow to relax. Place **ELASTOPHENE HS FR GR** in desired position and back roll the product. Apply approved cold adhesive following manufacturer specifications. **ELASTOPHENE HS 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	D6162, Type III, 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 ² (m ²)	97.9 (9.1)	D5147
Roll weight, lb (kg)	95-98 (43.0-44.6)	D5147
Rolls per pallet	25	D5147
Pallet weight, lb (kg)	2,425-2,500 (1,098-1,138)	D5147
Thickness (minimum), mils (mm)	138 (3.5)	D5147
Thickness (nominal), mils (mm)	146 (3.7)	D5147
Thickness (selvage), mils (mm)	106 (2.7)	D5147
Net mass per unit area, lb/100 ft ² (g/m ²)	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)	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	
ELASTOPHENE HS 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
ELASTOPHENE HS 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

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).

TESTING & APPROVALS:



WARRANTY:

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