

PRODUCT DATA SHEET

DESCRIPTION & FEATURES

ELASTOPHENE HS FR GR (high strength, fire retardant, granulated) is an SBS-modified bitumen cap ply for use in approved multi-ply membrane and flashing assemblies. ELASTOPHENE HS 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 composite polyester/glass fiber reinforcement. 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 HS 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 HS FR GR.

APPLICATION

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 or hot asphalt following manufacturer specifications. ELASTOPHENE HS FR GR is then rolled into the cold adhesive or hot asphalt and subsequently broomed in if utilizing hot asphalt or rolled with a weighted roll if utilizing cold adhesives. Subsequent approved inter-ply or cap ply membranes are applied to ELASTOPHENE HS FR GR via cold adhesive or hot asphalt. Refer to the SOPREMA SBS Roofing Manual for additional application guidelines.



APPLICATION



COLD ADHESIVE



HOT ASPHALT

COOL ROOF RATING*

PRODUCT	SOLAR REFLECTANCE		THERMAL EMITTANCE		SRI	
	initial	3 year	initial	3 year	initial	3 year
ELASTOPHENE HS FR GR Standard white granules (WH)	0.26	0.26	0.88	0.91	26	27
ELASTOPHENE HS FR GR Highly reflective white granules (SG)	0.66	0.62	0.91	0.91	81	75

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

QUICK FACTS

ASTM STANDARD	LENGTH (ft)	WIDTH (in)	COVERAGE* (ft ²)	THICKNESS (mils)	ROLL WEIGHT (lb)	ROLLS/PALLET (pallet weight)
D6162 Type 3, Grade G	32.8 (10.0 m)	39.4 (1.0 m)	97.9 (9.1 m ²)	145 (3.7 mm)	105 (47.7 kg)	30 (3,200 lb/ 1,452 kg)

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



SOPREMA®

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TECHNICAL INFORMATION & TESTING

SHEET PROPERTIES

Reinforcement	Composite polyester/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)	145 (3.7)	ASTM D5147
Thickness @ selvage, mils (mm)	106 (2.7)	ASTM D5147
Net mass per unit area, lb/100 ft ² (g/m ²)	88 (4300)	ASTM D5147

PHYSICAL PROPERTIES

PROPERTY	MD	XMD	TEST METHOD
Peak load @ 0°F (-18°C), lbf/in (kN/m)	405 (70.8)	375 (65.6)	ASTM D5147
Elongation at peak load @ 0°F (-18°C), %	7	8	ASTM D5147
Peak load @ 73.4°F (23°C), lbf/in (kN/m)	290 (50.8)	285 (49.9)	ASTM D5147
Elongation at peak load @ 73.4°F (23°C), %	10	10	ASTM D5147
Ultimate Elongation @ 73.4°F (23°C)	15	20	ASTM D5147
Tear strength @ 73.4°F (23°C), lbf (N)	540 (2402)	550 (2447)	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

TESTING & APPROVALS

