

PRODUCT DATA SHEET

DESCRIPTION & FEATURES

ELASTOPHENE HR FR GR (high resistance, fire retardant, granulated) is an SBS-modified bitumen cap ply for use in approved multi-ply membrane and flashing assemblies. ELASTOPHENE HR FR GR is composed of a proprietary formulation of elastomeric styrene-butadiene-styrene (SBS) polymer modified bitumen and is reinforced with high performance glass scrim. 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 HR 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 HR FR GR.

APPLICATION

Prior to installation, unroll ELASTOPHENE HR FR GR onto the roof surface and allow to relax. Place ELASTOPHENE HR FR GR in desired position and back roll the product. Apply approved cold adhesive or hot asphalt following manufacturer specifications. ELASTOPHENE HR 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 HR 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 HR FR GR Standard white granules (WH) | 0.26 | 0.23 | 0.87 | 0.90 | 25 | 23 |
| ELASTOPHENE HR FR GR Highly reflective white granules (SG) | 0.65 | 0.62* | 0.91 | 0.91* | 80 | 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) |
|--------------------------|------------------|-----------------|-------------------------------|------------------|------------------|--------------------------------|
| D6163 Type 2, Grade G | 32.8 (10.0 m) | 39.4 (1.0 m) | 97.9 (9.1 m ²) | 134 (3.4 mm) | 109 (49.3 kg) | 30 (3,320 lbs/ 1,506 kg) |

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



SOPREMA®

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TECHNICAL INFORMATION & TESTING

| SHEET PROPERTIES | |
|------------------------|---|
| Reinforcement | Glass scrim |
| 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) | 134 (3.4) | ASTM D5147 |
| Thickness @ selvage, mils (mm) | 106 (2.7) | ASTM D5147 |
| Net mass per unit area, lb/100ft ² (g/m ²) | 101 (4925) | ASTM D5147 |

| PHYSICAL PROPERTIES | | | |
|---|---------------------|------------|-------------|
| PROPERTY | MD | XMD | TEST METHOD |
| Peak load @ 0°F (-18°C), lbf/in (kN/m) | 185 (32.5) | 165 (28.9) | ASTM D5147 |
| Elongation at maximum load @ 0°F (-18°C), % | 6 | 6 | ASTM D5147 |
| Peak load @ 73.4°F (23°C), lbf/in (kN/m) | 110 (19.4) | 105 (18.5) | ASTM D5147 |
| Elongation at maximum load @ 73.4°F (23°C), % | 10 | 10 | ASTM D5147 |
| Ultimate elongation @ 73.4°F (23°C), % | 60 | 45 | ASTM D5147 |
| Tear strength @ 73.4°F (23°C), lbf (N) | 180 (801) | 190 (845) | ASTM D5147 |
| Low temperature flexibility, °F (°C) | -15 (-26) | -15 (-26) | ASTM D5147 |
| Dimensional stability, % | < 0.1 | < 0.1 | ASTM D5147 |
| Compound stability, °F (°C) | 240 (116) | 240 (116) | ASTM D5147 |
| Granule embedment, g | 1.5 avg; 2.0 max SG | | ASTM D5147 |

* Data is represented by average values, unless noted otherwise.

TESTING & APPROVALS

