

# POLYFRESKO® G SBS SA FR

## HIGHLY REFLECTIVE WHITE SBS (ELASTOMERIC) CAP SHEET

### PRODUCT DESCRIPTION

Polyfresko G SBS SA FR is a self-adhered Styrene-Butadiene-Styrene (SBS) granulated cap sheet with fire retardant additives for use in low-slope roofing. Polyfresko G SBS SA FR is manufactured using Polyglass' patented ADESO® Dual-Compound Self-Adhered Technology. With this technology, a "true" elastomeric compound is applied to the top of the membrane and an aggressive self-adhesive compound is applied to the bottom. Polyfresko G SBS SA FR is constructed with a superior non-woven polyester reinforcement that provides flexibility and dimensional stability as well as excellent tear and puncture resistance.

Featuring patented CURE Technology®, Polyfresko G SBS SA FR has a highly reflective granule surface which meets, or exceeds most standards for cool roofing. CURE Technology features an innovative thin film technology attributing to exceptional granule retention, minimal staining, scuff resistance and UV stabilization for long-term durability and performance.

Polyfresko G SBS SA FR also features SEALLap® ULTRA, a granule-free side lap with self-adhesive compound and FASTLap®, granule free end lap. Each of these patented features provide for greater ease of application as well as improved long-term performance.

Polyfresko G SBS SA FR can be used as part of a Polyglass warranted multi-ply system, when combined with Elastoflex SA V Plus or other approved Polyglass base sheets.



### TYPICAL APPLICATIONS

- Self-adhered cap sheet and flashing membrane on standard new construction and re-roofing applications.
- Self-adhered directly over an acceptable substrate or as part of a multi-ply system.
- Job sites with limited access for special installation equipment or where using a propane torch, hot asphalt or adhesives is undesirable.

### FEATURES AND BENEFITS

- Suitable for most cool roof specifications; Solar Reflectance Index (SRI) Initial: 96, Aged: 83.
- Demonstrated to maintain exceptional reflectivity over time.
- Superior polyester mat for excellent tear and puncture resistance.
- Resistance to discoloration and scuffing.
- Exceptional granule retention; 0.11 g loss vs. ASTM max 2.0 g.
- FASTLap granule free end lap provides faster, stronger seams.
- SEALLap ULTRA granule free selvage edge with self-adhesive compound for an immediate, long-term monolithic seam.

### TECHNICAL DESCRIPTION\*

Physical Properties	CSA A123.23-15, Type B, Grade 1	Typical Performance
Strain Energy @-18°C – kN/m (lbf/in), Min	3.0 kN/m [17 lbf/in]	5.69 (32.49) - MD 7.66 (43.74) - XMD
Strain Energy @23°C – kN/m (lbf/in) before heat cond, Min	5.5 kN/m [31 lbf/in]	6.95 (39.66) - MD 6.40 (36.56) - XMD
Peak Load at -18°C [0°F] - kN/m (lbf/in), Min	Report Value**	18.73 (106.95) - MD 14.57 (83.20) - XMD
Elongation at Peak Load at -18°C [0°F] - (%), Min	Report Value**	32 - MD 33 - XMD
Peak Load at 23°C [73°F] - kN/m (lbf/in), Min	Report Value**	10.31 (58.87) - MD 6.93 (39.57) - XMD
Elongation at Peak Load at 23°C [73°F] - (%), Min	Report Value**	55 - MD 83 - XMD
Ultimate Elongation at 23°C [73°F] - (%) before heat cond, Min	Report Value**	312 - MD 309 - XMD
Low Temperature Flexibility* – °C (°F), Max	-18 [-4]	Pass
Dimensional Stability (%), Max	1.0	Pass
Compound Stability – °C (°F), Min	102 [205]	Pass
Resistance to Puncture – Pass/Fail	Pass	Pass
Granule Embedment – g (oz), Max	2.0 [0.07]	Pass

\*The properties in this table are "as manufactured" unless otherwise noted

\*\*Report Value: Shall be reported but has no minimum value

### AVAILABLE COLORS

Highly Reflective White

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### PRODUCT DATA\*\*\*

Net Coverage (Approx).....	9.3 m <sup>2</sup> (100 ft <sup>2</sup> )
Weight (Approx) .....	40 kg (88 lbs)
Thickness (Nominal) .....	3.6 mm (142 mils)
Roll Size .....	10 m x 1 m (32'10" x 39 3/8")
Rolls/Pallet.....	25

\*\*\*All values are nominal at time of manufacturing

### APPLICABLE STANDARDS

- ASTM D6164, Type I, Grade G
- UL Classified
- FM Approved
- ICC ESR-2018
- Texas Department of Insurance
- CRRC Listed
- Can be used to comply with 2016 Title 24 Part 6 Cool Roof requirements.
- Tested According to CSA A123.23-15, Type B, Grade 1



### PRODUCT CODES

- ESAF35KCCQ



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### APPLICATION INSTRUCTIONS

Polyfresko G SBS SA FR is intended to be used as the primary weathering surface in new or re-roof applications. Polyfresko G SBS SA FR is to be applied as the uppermost layer of a multi-ply roof system over a compatible Polyglass base or interply membrane. Polyfresko G SBS SA FR may also be applied directly to approved wood deck substrates of non-occupied spaces such as carports, sheds, canopies, etc. For additional substrate requirements and information refer to "Suitable Substrates for Self-Adhered Membranes" Polyglass Technical Bulletin.

- Apply Polyfresko G SBS SA FR membrane only in dry weather and when air and surface temperatures are 40°F (5°C) and rising.
- Apply over clean, dry, dust and debris-free substrates. Prime required substrates prior to application with Polytack high-tack contact adhesive.
- Concrete or steel decks shall be designed with proper expansion devices.
- Wood decks shall have all joints cross blocked and/or properly supported.
- Installation of Polyfresko G SBS SA FR should not adversely affect the ventilation of existing construction.
- Do not apply directly to existing shingles or other unacceptable roof coverings.
- While installing Polyfresko G SBS SA FR:
  1. Start at the low point of the roof.
  2. Unroll the material and allow to relax.
  3. Start by removing the first 18–24" of release film.
  4. Press the membrane into place with firm and even pressure. Roll the edges with a silicone hand roller to ensure complete adhesion.
  5. Gradually remove the remaining release film applying pressure from the center to the edges as you go.
  6. Position successive rolls using the 5" FASTlap at the endlap and 3" SEAllap granule free side lap. Ensure a watertight seal.
  7. After installation of the entire roof surface, roll with an 75# split-face linoleum roller. Take care on sloped roofs by securing the roller and applicator with the appropriate safety equipment.
- Details and flashing may be installed with a hot air welder or with PG 500 Roof Cement or PolyPlus 50 Premium Modified Wet/Dry Cement. Refer to manufacturer's published details for proper design and installation of detail work.
- For detailed drawings and recommended installation procedures of typical roof segments, such as drip edge and T-joint conditions, please refer to our website at, [www.polyglass.ca](http://www.polyglass.ca).

	<b>Rated Product ID #: 0616-0011a</b>		
	<b>Initial</b>	<b>Aged</b>	
	<b>Solar Reflectance</b>	<b>0.77</b>	<b>0.68</b>
	<b>Thermal Emittance</b>	<b>0.90</b>	<b>0.88</b>
<small>The ratings above are subject to CRRC rating program conditions, requirements, and limitations. Visit <a href="http://coolroofs.org">coolroofs.org</a> for important information and disclaimers about CRRC rating conditions, requirements, and limitations.</small>			

**Solar Reflectance Index (SRI) – Initial: 96 • Aged: 83**

### MANUFACTURING FACILITIES

- Fernley, NV
- Hazleton, PA
- Waco, TX
- Winter Haven, FL

### CORPORATE HEADQUARTERS

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Product Disclaimer: Unless otherwise incorporated into or part of a supplemental manufacturer's warranty, Polyglass warrants its product(s) against manufacturing defects in its product that directly results in leakage for a period of 5 years.

Refer to safety data sheet (SDS) for specific data and handling of our products. All data furnished refers to standard production and is given in good faith within the applicable manufacturing and testing tolerances.

Polyglass U.S.A., Inc., reserves the right to improve and change its products at any time without prior notice. Polyglass U.S.A., Inc. cannot be held responsible for the use of its products under conditions beyond its own control. For most current product data and warranty information, visit [www.polyglass.ca](http://www.polyglass.ca)



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