

ELASTOFLEX SA P POLAR CAP®

SELF-ADHERED LOW-TEMPERATURE SBS GRANULATED CAP SHEET

PRODUCT DESCRIPTION

Elastoflex SA P Polar Cap is a self-adhered, Styrene-Butadiene-Styrene (SBS) granulated cap sheet for use in low-slope roofing in low temperature conditions. Elastoflex SA P Polar Cap 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 a proprietary "low-temp", self-adhesive SBS compound is applied to the bottom. Elastoflex SA P Polar Cap is constructed with a high quality non-woven polyester reinforcement that provides flexibility and dimensional stability as well as excellent tear and puncture resistance.

The top surface of the Elastoflex SA P Polar Cap has a granular finish with black or white color options. Elastoflex SA P Polar Cap also features SEALlap® ULTRA, side lap with self-adhesive compound for an instant bond even at lower temperatures and FASTlap® granule free end lap. Each of these patented features provide for greater ease of application as well as improved long-term performance.

Elastoflex SA P Polar Cap can be used as part of a Polyglass warranted multi-ply system, when combined with Elastoflex SA V Polar Base or other top film-surfaced Polyglass base sheets to provide a cleaner application, improved application speed and removes the need for torches, hot asphalt or bonding adhesives on the job site.

TYPICAL APPLICATIONS

- Cap sheet and flashing membrane on standard new construction and reroofing 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.
- **Designed for cold weather applications: 25°F – 60°F (-4°C – 16°C)**

FEATURES AND BENEFITS

- Formulated with "low-temp" self-adhesive compound for cold weather climates, extends self-adhered roofing season.
- Long-term adhesion and application to multiple substrates and base/interply membranes.
- Non-woven polyester mat delivers excellent tear and puncture resistance.
- FASTlap granule free end lap provides faster, stronger seams.
- SEALlap ULTRA granule free selva edge with low-temp self-adhesive compound for an immediate, long-term monolithic seam.

APPLICATION INSTRUCTIONS

Elastoflex SA P Polar Cap is intended to be used as the primary weathering surface in new or re-roof applications. Elastoflex SA P Polar Cap is to be applied as the uppermost layer of a multi-ply roof system over a compatible Polyglass base and/or interply membrane. Elastoflex SA P Polar Cap 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 Elastoflex SA P Polar Cap membrane only in dry weather and **when air and surface temperatures are between 25°F (-4°C) and 60°F (16°C).**
- Apply over clean, dry, dust and debris-free substrates. Prime required substrates prior to application with PG 100 Fast-Drying Asphalt Primer or alternative ASTM D41 primers as approved by Polyglass.
- When re-roofing, remove all prior roofing materials down to a clean debris-free substrate and properly close-off all abandoned roof penetrations.
- Concrete or steel decks shall be designed with proper expansion devices.
- Wood decks shall have all joints blocked and properly supported.
- Ensure the installation of Elastoflex SA P Polar Cap does not prevent the ventilation of existing construction.
- Do not apply over shingles or other granulated surface.
- While installing Elastoflex SA P Polar Cap:
 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 providing a minimum 6" end lap and 3" side lap. Laps can be sealed



PRODUCT DATA**

Net Coverage (Approx).....	9.3 m ² (100 ft ²)
Weight (Approx)	41 kg (90 lbs)
Thickness (Nominal)	3.5 mm (140 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
- CSA A123.23-15, Type B, Grade 1



PRODUCT CODES

- ESAPC35BLQ
- ESAPC35WHQ



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for additional water tightness with a hot air welder.

7. Intermittent rolling is recommended with a 75# split-face linoleum roller. Take care on sloped roofs by securing the roller and applicator with the appropriate safety equipment. Intermittent rolling is recommended.

- Details and flashing may be installed using Elastoflex SA P Polar Cap

with a hot air welder or with PG 500 Roof Cement. Check project details for proper installation requirements.

- 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

TECHNICAL DESCRIPTION*

Properties		CSA A123.23-15 Criteria Type B, Grade 1	Tested Value	
Thickness – mm (mils)		3.3 (130)	3.5 (140)	
Seldedge thickness – mm (mils)		2.2 (85)	2 (80)	
Mass per unit area – kg/m² (lbs/100 ft²)		3.7 (75)	4.5 (92)	
Testing			Before Heat Conditioning	After Heat Conditioning
Strain energy, min. – kN/m (lbf/in)	At 23 ± 2°C (73.4 ± 3.6°F)	5.5 (3.1)	6.3 (36) - MD 5.5 (31) - XMD	6.3 (36) - MD 5.5 (31) - XMD
	At -18 ± 2°C (-4 ± 3.6°F)	3.0 (17)	8.4 (48) - MD 8.2 (47) - XMD	7.2 (41) - MD 6.5 (37) - XMD
Peak load, min. – kN/m (lbf/in)	At 23 ± 2°C (73.4 ± 3.6°F)	See Tested Value	15.8 (90) - MD 10.8 (60) - XMD	15.9 (91) - MD 10.7 (61) - XMD
	At -18 ± 2°C (-4 ± 3.6°F)	See Tested Value	24.2 (138) - MD 15.4 (880) - XMD	20.7 (118) - MD 15.2 (87) - XMD
Elongation at peak load, %	At 23 ± 2°C (73.4 ± 3.6°F)	See Tested Value	59 - MD 78 - XMD	48 - MD 57 - XMD
	At -18 ± 2°C (-4 ± 3.6°F)	See Tested Value	52 - MD 64 - XMD	43 - MD 51 - XMD
Ultimate elongation at 23 ± 2°C, %		See Tested Value	80 - MD 97 - XMD	51 - MD 63 - XMD
Dimensional stability, max., %		1	0.3 - MD 0.6 - XMD	
Low temperature flexibility, max. – °C (°F)		-18 (-4)	PASS	PASS
Low temperature flexibility after UV weathering, max. – °C (°F)		-12 (10)	PASS	
Compound stability, min. – °C (°F)		102 (215)	> 102 (215)	> 102 (215)
Resistance to puncture		PASS	PASS	
Granule embedment (Grade 1 only), max. – g (oz)		2.0 (0.07)	1.5	

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

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



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