

POLYFLEX® SA P FR

SELF-ADHERED GRANULATED APP (PLASTOMERIC) CAP SHEET

PRODUCT DESCRIPTION

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

Polyflex SA P FR cap sheet also features SEAllap® ULTRA, a side lap with self-adhesive compound for an instant bond which tested stronger than all other application methods, and FASTlap®, a granule free end lap. Each of these patented features provide for greater ease of application as well as improved long-term performance.

When used in conjunction with Elastoflex SA V or Elastoflex SA V PLUS base sheets, Polyflex SA P FR provides a cleaner application, improved application speed and removes the need for torches, hot asphalt or bonding adhesives on the job site.

TYPICAL APPLICATIONS

- Standard new construction roofing, re-roofing, re-cover and flashing details.
- Job sites with limited access for special installation equipment or where using a propane torch, hot asphalt or adhesives is undesirable.
- Cap sheet for self-adhered multi-ply systems.

FEATURES AND BENEFITS

- Aggressive self-adhered bottom compound and high quality APP top weathering compound.
- Tough polyester mat for excellent puncture and tear resistance.
- FASTlap granule free end lap provides faster, stronger seams.
- SEAllap ULTRA granule free selvage edge now with self-adhesive compound for an immediate, long-term monolithic seam.

TECHNICAL DESCRIPTION*

Physical Properties	ASTM Method	ASTM Value	Typical Performance
Peak Load at 73°F (23°C)	D5147	50 lbf/in. (8.8 kN/m)	97 lbf/in. (17 kN/m) - MD 58 lbf/in. (10 kN/m) - XMD
Elongation at Peak Load at 73°F (23°C)	D5147	23%	55% - MD 60% - XMD
Peak Load at 0°F (-18°C)	D5147	60 lbf/in. (10.5 kN/m)	132 lbf/in. (23 kN/m) - MD 92 lbf/in. (16 kN/m) - XMD
Elongation at Peak Load at 0°F (-18°C)	D5147	10%	35% - MD 38% - XMD
Ultimate Elongation at 73°F (23°C)	D5147	30%	57% - MD 66% - XMD
Tear Strength at 73°F (23°C)	D5147	70 lbf (311 N)	138 lbf (614 N) - MD 108 lbf (480 N) - XMD
Low Temperature Flexibility (maximum)	D5147	32°F (0°C)	Pass
Dimensional Stability (maximum)	D5147	1%	0.2% - MD 0.3% - XMD
Compound Stability (maximum)	D5147	230°F (110°C)	Pass
Granule Embedment (maximum loss)	D5147	2 g	0.65 g
Adhesion to Plywood (min at 40°F)	D1970	2.0 lbf/ft	4.7 lbf/ft
Adhesion to Plywood (min at 75°F)	D1970	12.0 lbf/ft	31 lbf/ft

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

AVAILABLE COLORS

Black (BL)	Buff (BU)	Chestnut (CH)	Grey Slate (SL)	Oak
(OA)	White (WH)	Red Blend (RB)	Pine Green (PG)	
Heather Blend (HB)	Weatherwood (WW)	Bright White (BW)		

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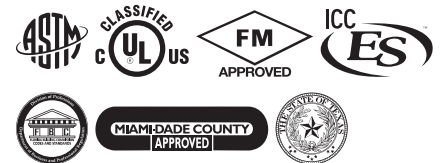
PRODUCT DATA**

Net Coverage (Approx)..... 100 ft² (9.3 m²)
 Weight (Approx) 89 lbs (40 kg)
 Thickness (Nominal)..... 142 mils (3.6 mm)
 Roll Size 32'10" x 39 3/8" (10 m x 1 m)
 Rolls/Pallet..... 25

**All values are nominal at time of manufacturing

APPLICABLE STANDARDS

- ASTM D6222, Type I, Grade G (Table 1)
- UL Classified
- FM Approved
- ICC ESR-2018
- Florida Building Code
- Miami-Dade County Approved
- Texas Department of Insurance
- CRRC Listed



PRODUCT CODES


- PFSAF35##Q
- ##denotes color code - see Available Colors



www.polyglass.us

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	Rated Product ID #: 0616-0047	
	Solar Reflectance	Initial 0.69 Aged 0.62*
	Thermal Emittance	0.92 0.93*
<small>The ratings above are subject to CRRC rating program conditions, requirements, and limitations. Visit coolroofs.org for important information and disclaimers about CRRC rating conditions, requirements, and limitations.</small>		
<small>*CRRC Rapid Ratings: Interim laboratory-aged values that simulate naturally-aged values and will be replaced by the measured three-year naturally-aged values upon completion of the weathering process.</small>		

Solar Reflectance Index (SRI) – Initial: 85 • Aged: 76*

APPLICATION INSTRUCTIONS

Polyflex SA P FR is intended to be used as the primary weathering surface in new and re-roof applications. Polyflex SA P FR is to be applied as the uppermost layer of a multi-ply roof system over a film top Polyglass base or interply sheet. Polyflex SA P FR may be applied directly to certain non-combustible substrates.

For additional substrate requirements and information refer to "Suitable Substrates for Self-Adhered Membranes" Polyglass Technical Bulletin.

- Apply Polyflex SA P 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 PG 100 Fast-Drying Asphalt Primer or WVB-3000 Water-Based Primer. Consult Polyglass Technical Service if alternate primer is allowed.
- All substrates shall be designed with proper expansion devices.
- Wood decks shall have all joints cross blocked and/or properly supported.
- Installation of Polyflex SA P FR should not adversely affect the ventilation of existing construction.
- Do not apply directly to existing shingles or other unacceptable roof coverings.
- While installing Polyflex SA P 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 ULTRA granule free side lap. Ensure a watertight seal.
 7. After installation of the entire roof surface, roll with a 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.us.

MANUFACTURING FACILITIES

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

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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.

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