

# POLYFLEX® G FR

## APP (PLASTOMERIC) GRANULATED CAP SHEET

### PRODUCT DESCRIPTION

Polyflex G FR is an APP (plastomeric) granulated cap sheet with fire retardant additives for use in low-slope roofing and designed for heat welded applications. Polyflex G FR incorporates a superior non-woven polyester reinforcement which provides flexibility and dimensional stability as well as exceptional tear and puncture resistance. The proprietary APP (plastomeric) compound and durable construction provides long-term weathering performance. The top surface is granulated while the bottom surface has a factory applied burn-off film.

Polyflex G FR cap sheet features Polyglass' patented FASTLap® for granule free end laps. FASTLap provides greater ease and speed of application as well as improved long term watertight seal.

Polyflex G FR membrane can be used as part of a Polyglass warranted multi-ply system, when combined with Polyflex base or interply sheets or other approved Polyglass base sheets.

### TYPICAL APPLICATIONS

- Heat welded cap sheet for low-slope roofs.
- Applied directly over an acceptable substrate or as part of a multi-ply system.
- New roofing, re-roofing, re-cover and for flashing details.

### FEATURES AND BENEFITS

- Proprietary blend of APP modified bitumen allows for superior weathering performance.
- Superior non-woven polyester mat for exceptional puncture and tear resistance.
- FASTLap granule free end laps.
- Granule free selvage edges.

### TECHNICAL DESCRIPTION\*

Physical Properties	ASTM Method	ASTM Value	Typical Performance
Peak Load at 73°F (23°C)	D5147	50 lbf/in (8.6 kN/m)	96 lbf/in (16.8 kN/m) - MD 54 lbf/in (9.5 kN/m) - XMD
Elongation at Peak Load at 73°F (23°C)	D5147	23%	65% - MD 71% - XMD
Peak Load at 0°F (-18°C)	D5147	60 lbf/in (10.5 kN/m)	135 lbf/in (23.6 kN/m) - MD 83 lbf/in (14.5 kN/m) - XMD
Elongation at Peak Load at 0°F (-18°C)	D5147	10%	53% - MD 47% - XMD
Ultimate Elongation at 73°F (23°C)	D5147	30%	72% - MD 83% - XMD
Tear Strength at 73°F (23°C)	D5147	70 lbf (311 N)	142 lbf (632 N) - MD 90 lbf (400 N) - XMD
Dimensional Stability (maximum)	D5147	1%	1% - MD 0% - XMD
Low Temperature Flexibility (maximum) at 32°F (0°C)	D5147	Pass/Fail	Pass
Compound Stability (minimum) at 230°F (110°C)	D5147	Pass/Fail	Pass
Granule Embedment (maximum loss)	D5147	2 g	1.2 g

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

### AVAILABLE COLORS

Top surface granule protection is available in a variety of colors such as:

- |                    |                  |                   |                 |
|--------------------|------------------|-------------------|-----------------|
| 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) |                 |



### PRODUCT DATA\*\*

Net Coverage (Approx) .... 100 ft<sup>2</sup> (9.3 m<sup>2</sup>)  
 Weight (Approx) ..... 117 lbs (53 kg)  
 Thickness (Nominal) ..... 180 mils (4.5 mm)  
 Roll Size ..... 32'10" x 39 3/8" (10 m x 1 m)  
 Rolls/Pallet.....20

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

### APPLICABLE STANDARDS

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




### PRODUCT CODES

- PFF45##PZ (Granule/Film)
- ##denotes color code - see Available Colors



# POLYFLEX® G FR APP (PLASTOMERIC) GRANULATED CAP SHEET

Bright White (BW) Cap Sheets Only

	<b>Rated Product ID #: 06 16-0047</b>	
	<b>Solar Reflectance</b>	<b>Initial 0.69    Aged 0.62*</b>
	<b>Thermal Emittance</b>	<b>0.92    0.93*</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>		
<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 G FR is intended to be used as the primary weathering surface in new and re-roof applications. Polyflex G FR is to be applied as the uppermost layer of a multi-ply roof system over a compatible Polyglass base and/or interply sheet. Polyflex G FR may be applied directly to certain noncombustible substrates.

- Apply over clean, dry, dust and debris-free substrates. When fully bonding, prime concrete decks and required substrates, prior to application with PG 100 Fast-Drying Asphalt Primer or applicable ASTM D-41 asphalt primer.
- When re-roofing, remove all prior roofing materials down to a clean, dust free substrate. Remove unused or abandoned through-roof penetrations.
- Concrete or steel decks shall be designed with proper expansion devices.
- Wood decks shall have all joints cross blocked and/or properly supported.
- Ensure the fire rating of the assembly over any substrate.
- Ensure the installation of Polyflex G 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 G FR:
  1. Start at the lowest point of the roof.
  2. Unroll the material and allow it to relax as membrane is positioned prior to installation.
  3. Install with traditional torch roofing techniques ensuring proper heating of the roofing material.
  4. Do not overheat to expose or compromise the reinforcement.
  5. Position successive rolls using the 5" FASTLap at the endlap and 3" granule free side lap. Bleed out of asphalt should be ¼" to ⅜" at all seams.
  6. It is suggested but not mandatory that laps shall be rolled with a 6"-wide roller immediately after heat welding.

- Details and flashings may be installed using torch applied techniques. Do not adhere using cold adhesives or hot asphalt. 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](http://www.polyglass.us)

## MANUFACTURING FACILITIES

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

## CORPORATE HEADQUARTERS

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**Questions?** [technical@polyglass.com](mailto:technical@polyglass.com)

**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.us](http://www.polyglass.us).

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