

# POLYFLEX® G FR

## APP (PLASTOMERIC) GRANULATED CAP SHEET

### PRODUCT DESCRIPTION

Polyflex G FR is an Atactic Polypropylene (APP) modified bitumen roofing membrane with fire retardant additives, and reinforced with a superior non-woven polyester mat that provides flexibility and dimensional stability as well as excellent tear and puncture resistance. The premium APP compound and durable construction provides long-term weathering performance.

Polyflex G FR has a granular top surface and a burn-off film bottom surface for heat welding application.

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 weathering performance.

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



### 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 [8.8 kN/m]	99 lbf/in [17.3 kN/m] - MD 69 lbf/in [12.1 kN/m] - XMD
Elongation at Peak Load at 73°F [23°C]	D5147	23%	43% - MD 45% - XMD
Peak Load at 0°F [-18°C]	D5147	60 lbf/in [10.5 kN/m]	132 lbf/in [23.1 kN/m] - MD 92 lbf/in [16.1 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%	47% - MD 48% - XMD
Tear Strength at 73°F [23°C]	D5147	70 lbf [311 N]	143 lbf [636 N] - MD 101 lbf [449 N] - XMD
Dimensional Stability [maximum]	D5147	1%	0.2% - MD 0.3% - XMD
Low Temperature Flexibility [maximum]	D5147	32°F [0°C]	PASS
Compound Stability [minimum]	D5147	230°F [110°C]	PASS
Granule Embedment [maximum loss]	D5147	2 g	0.65 g

\*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) |                |                 |

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### 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" × 39 3/8" (10 m × 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

**POLYGLASS®**  
MAPEI GROUP  
www.polyglass.us

# POLYFLEX® G FR

## APP (PLASTOMERIC) GRANULATED CAP SHEET

### 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 1/8" to 1/4" 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

Polyglass U.S.A., Inc.  
1111 West Newport Center Drive  
Deerfield Beach, FL 33442  
[www.polyglass.us](http://www.polyglass.us)

General Line: (888) 410-1375  
(954) 233-1330

Customer Service: (800) 222-9782  
Technical Service: (866) 802-8017

**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.

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