

# POLYFLEX® G

## APP (PLASTOMERIC) GRANULATED CAP SHEET

### PRODUCT DESCRIPTION

Polyflex G is an APP (plastomeric) granulated cap sheet for low-slope roofing and specially designed for heat welded applications. Polyflex G 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 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 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 provides superior weathering.
- Non-woven polyester mat for exceptional puncture and tear resistance.
- FASTLap granule free end laps.
- Granule free selvage edges.

### AVAILABLE COLORS

Top surface granule protection is available in Black.

### APPLICATION INSTRUCTIONS

Polyflex G is intended to be used as the primary weathering surface in new and re-roof applications. Polyflex G 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 may be applied directly to certain noncombustible substrates.

- Apply over clean, dry, dust and debris-free substrates. Prime required substrates prior to application. Prime concrete decks prior to application with PG 100 Asphalt Primer or alternative ASTM D41 primers as approved by Polyglass.
- When re-roofing, remove all prior roofing materials down to a clean, dust free substrate. Remove unused or abandoned through-roof penetrations.
- All substrates shall be designed with proper expansion devices.
- Wood decks shall have all joints cross blocked and/or properly supported.
- Installation of Polyflex G 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:
  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. Laps may be lightly rolled with a 4" to 6" wide roller to ensure lap is fused.
- 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)



### PRODUCT DATA\*\*

Net Coverage (Approx).....	7.4 m <sup>2</sup> (80 ft <sup>2</sup> )
Weight (Approx) .....	41 kg (91 lbs)
Thickness (Nominal).....	4.5 mm (180 mils)
Roll Size .....	8 m x 1 m (26'3" x 39 3/8")
Rolls/Pallet.....	25

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

### APPLICABLE STANDARDS

- ASTM D6222, Type I, Grade G
- UL Classified
- FM Approved
- ICC ESR-2018
- CSA A123.23-15, Type B, Grade 1



### PRODUCT CODES

- PF45BLPZ8



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### TECHNICAL DESCRIPTION\*

Properties		CSA A123.23-15, Type B, Grade 1	Tested Value	
Thickness – mm (mils)		4.0 (160)	4.5 (180)	
Seldge thickness – mm (mils)		3.5 (140)	3.5 (140)	
Mass per unit area – kg/m <sup>2</sup> (lbs/100 ft <sup>2</sup> )		4.2 (86)	5.0 (102)	
Back surface coating thickness (only for heat-welded sheets), min. – mm (mils)		1.0 (40)	1.34 (53)	
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 (31)	7.4 (42) - MD 6.0 (34) - XMD	8.1 (46) - MD 5.5 (32) - XMD
	At -18 ± 2°C (-4 ± 3.6°F)	3.0 (17)	8.8 (50) - MD 5.1 (29) - XMD	8.9 (51) - MD 4.2 (24) - XMD
Peak load, min. – kN/m (lbf/in)	At 23 ± 2°C (73.4 ± 3.6°F)	See Tested Value	17.2 (98) - MD 11 (63) - XMD	18.9 (108) - MD 11.7 (67) - XMD
	At -18 ± 2°C (-4 ± 3.6°F)	See Tested Value	23.3 (133) - MD 15.1 (86) - XMD	24.5 (140) - MD 15.3 (87) - XMD
Elongation at peak load, %	At 23 ± 2°C (73.4 ± 3.6°F)	See Tested Value	56 - MD 68 - XMD	60 - MD 63 - XMD
	At -18 ± 2°C (-4 ± 3.6°F)	See Tested Value	42 - MD 42 - XMD	51 - MD 36 - XMD
Ultimate elongation at 23 ± 2°C, %		See Tested Value	61 - MD 78 - XMD	64 - MD 89 - XMD
Dimensional stability, max., %		1.0%	1 - MD 0 - XMD	
Low temperature flexibility, max. – °C (°F)		0 (32)	Pass	Pass
Low temperature flexibility after UV weathering, max. – °C (°F)		6 (43)	Pass	
Compound stability, min. – °C (°F)		110 (230)	110 (230)	110 (230)
Resistance to puncture		Pass	Pass	
Granule embedment (Grade 1 only), max. – g (oz)		2.0 (0.07)	1.2 (0.04)	

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

### MANUFACTURING FACILITIES

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

### CORPORATE HEADQUARTERS

Polyglass U.S.A., Inc.  
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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.ca](http://www.polyglass.ca).



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