POLYFRESKO® G HP FR

HIGHLY REFLECTIVE WHITE APP (PLASTOMERIC) CAP SHEET - TYPE II

PRODUCT DESCRIPTION

Polyfresko G HP FR is a premium Atactic Polypropylene (APP) granulated cap sheet with fire retardant additives for use in low-slope roofing. Polyfresko G HP FR is constructed with a high performance non-woven polyester reinforcement that provides flexibility and dimensional stability as well as exceptional tear and puncture resistance. Polyfresko G HP FR has a film bottom surface for heat welding application.

Featuring patented CURE Technology®, Polyfresko G HP FR has a highly reflective granule surface which meets, or exceeds most standards for cool roofing. CURE Technology features an innovative thin film technology attributing to exceptional granule retention, minimal staining, scuff resistance and UV stabilization for long-term durability and performance.

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

TYPICAL APPLICATIONS

- Designed for heat-welded applications; burn-off film bottom surface.
- Applied directly over an acceptable substrate or as part of a multi-ply system.
- Ideal for new roofing, re-roofing, and for flashing details.

FEATURES AND BENEFITS

- Suitable for most cool roof specifications; Solar Reflectance Index (SRI) Initial: 96, Aged: 83.
- Demonstrated to maintain exceptional reflectivity over time.
- Superior polyester mat for excellent tear and puncture resistance.
- Resistance to discoloration and scuffing.
- Exceptional granule retention; 0.09 g loss vs. ASTM max 2.0 g.
- FASTLap® granule free end lap provides faster, stronger seams.

TECHNICAL DESCRIPTION*

Physical Properties	ASTM Method	ASTM Value	Typical Performance
Peak Load at 73°F (23°C)	D5147	80 lbf/in (14 kN/m)	91 lbf/in (16 kN/m) - MD 89 lbf/in (16 kN/m) - XMD
Elongation at Peak Load at 73°F (23°C)	D5147	40%	44% - MD 55% - XMD
Ultimate Elongation at 73°F (23°C)	D5147	50%	50% - MD 60% - XMD
Tear Strength at 73°F (23°C)	D5147	80 lbf (356 N)	150 lbf (665 N) - MD 120 lbf (532 N) - XMD
Low Temperature Flexibility (maximum)	D5147	32°F (0°C)	14°F (-10°C)
Dimensional Stability (maximum)	D5147	1%	0%
Compound Stability (minimum)	D5147	230°F (110°C)	Pass
Granule Embedment (maximum loss)	D5147	2 g	0.09 g

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

AVAILABLE COLORS

Highly Reflective White

PRODUCT DATA**

Net Coverage (Approx).... 100 ft² (9.3 m²)
Weight (Approx) ..... 116 lbs (53 kg)
Thickness (Nominal)..... 173 mils (4.4 mm)
Roll Size .....32'10" × 39⅜" (10 m × 1 m)
Rolls/Pallet.....20

**All values are nominal at time of manufacturing

APPLICABLE STANDARDS

- ASTM D6222 Type II, Grade G
- UL Classified
- FM Approved
- CRRC Listed
- Can be used to comply with 2016 Title 24 Part 6 Cool Roof requirements.

PRODUCT CODES

- PFFHPKCPZ

POLYGLASS®
MAPEI GROUP
www.polyglass.us

Edition Date: 11/22 • Doc# Polyfresko G HP FR

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APPLICATION INSTRUCTIONS

Polyfresko G HP FR is intended to be used as the primary weathering surface in new or re-roof applications. Polyfresko G HP FR is to be applied as the uppermost layer of a multi-ply roof system over a compatible Polyglass base or interply membrane. Polyfresko G HP FR may also be applied directly to approved wood deck substrates of non-occupied spaces such as carports, sheds, canopies, etc.

- 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 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 fire rating of the assembly over any combustible substrate.
- Ensure the installation of Polyfresko G HP FR does not prevent the ventilation of existing construction.
- Do not apply over shingles or any granulated surface.
- While installing Polyfresko G HP FR:
  1. Start at the low point of the roof.
  2. Unroll the material and allow to relax then re-roll the membrane once relaxed.
  3. Install with traditional torch roofing techniques ensuring proper heating of the roofing material. Fully torch the burnoff film creating a pool of asphalt. Pay close attention to the sidelap.
  4. Position successive rolls using the 5" FASTLap at the endlap and 3" granule free side lap. Asphalt bleed out shall be ¼" to ⅜" on all seams.
  5. Use Polyglass' CURE Technology Detail and Repair Finish to treat seams on Polyfresko G HP FR cap sheet. For more information, refer to CURE Technology Detail and Repair Finish Product Data Sheet.
- Details and flashing may be installed using hot asphalt, cold application or torch techniques. 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.us

CRRC COOL ROOF RATING COUNCIL ®

Rated Product ID #: 0616-0011a

	Initial	Aged
Solar Reflectance	0.77	0.68
Thermal Emittance	0.90	0.88

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.

Solar Reflectance Index (SRI) – Initial: 96 • Aged: 83

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.us

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