

ELASTOFLEX VP G HP

SBS (ELASTOMERIC) COMPOSITE CAP SHEET

PRODUCT DESCRIPTION

Elastoflex VP G HP is a superior SBS (Styrene-Butadiene-Styrene) modified bitumen roofing membrane reinforced with a high performance fiberglass and polyester composite mat that provides flexibility and dimensional stability as well as excellent tear and puncture resistance.

Elastoflex VP G HP has a granular top surface in multiple color options and a burn-off film bottom surface for heat-welding applications. Elastoflex VP G HP membrane can be used as part of a Polyglass warranted multi-ply system, when combined with Elastoflex VP composite base or interply sheets or other approved Polyglass base sheets.

TYPICAL APPLICATIONS

- Superior cap sheet for multi-ply low-slope systems.
- New roofing, re-roofing and re-cover roofing and flashing details.
- Designed for heat-welded installation method.

FEATURES AND BENEFITS

- High quality SBS compound for exceptional long-term weathering performance.
- High performance composite reinforcement provides exceptional puncture and tear resistance.
- Flexibility and dimensional stability.

TECHNICAL DESCRIPTION*

| Physical Properties | CSA A123.23-15, Type C, Grade 1 | Typical Performance |
|---|---|---------------------|
| Strain Energy @-18°C – kN/m (lbf/in) before and after heat cond, Min - MD/XMD | 3.0 [17] | > 3.0 [> 17] |
| Strain Energy @23°C – kN/m (lbf/in) before and after heat cond, Min - MD/XMD | 5.5 [31] | > 5.5 [> 31] |
| Peak Load at -18°C [0°F] - kN/m (lbf/in) before and after heat cond, Min - MD/XMD | Provide Testing Values (no min std value) | > 18.4 [> 105] |
| Elongation at Peak Load at -18°C [0°F] - (%) before and after heat cond, Min - MD/XMD | Provide Testing Values (no min std value) | > 47 |
| Peak Load at 23°C [73°F] - kN/m (lbf/in) before and after heat cond, Min - MD/XMD | Provide Testing Values (no min std value) | > 14.4 [> 82] |
| Elongation at Peak Load at 23°C [73°F] - (%) before and after heat cond, Min - MD/XMD | Provide Testing Values (no min std value) | > 66 |
| Ultimate Elongation at 23°C [73°F] - (%) before and after heat cond, Min - MD/XMD | Provide Testing Values (no min std value) | > 74 |
| Dimensional Stability (%), Max - MD/XMD | 0.5 | < 0.5 |
| Low Temperature Flexibility* – °C (°F) before and after heat cond, Max - MD/XMD | -18 [0] | < -18 [< 0] |
| Low Temperature Flexibility* – °C (°F) after UV weathering, Max - MD/XMD | -12 [10] | < -12 [< 10] |
| Compound Stability – °C (°F), Min | 91 [195] | > 91 [> 195] |
| Resistance to Puncture – Pass/Fail | Pass | Pass |
| Granule Embedment – g (oz), Max | 2.0 [0.07] | < 2.0 [< 0.07] |

*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) Grey Slate (SL) Oak (OA) White (WH)
Charcoal Grey (CG) (Western Canada Only)

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PRODUCT DATA**

Gross Coverage 8 m² (86 ft²)
 Net Coverage (Approx) 7.4 m² (80 ft²)
 Weight (Approx) 40 kg (88 lbs)
 Thickness (Nominal) 4.0 mm (160 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

- UL Classified
- CSA A123.23-15, Type C, Grade 1



PRODUCT CODES

Western Canada

- EPHV40##PC8W (Granule/Film)

Eastern Canada

- EPHV40##PC8 (Granule/Film)

##denotes color code - see Available Colors

POLYGLASS



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APPLICATION INSTRUCTIONS

Elastoflex VP G HP is intended to be used as the primary weathering surface in new or re-roof applications. Elastoflex VP G HP is to be applied as the uppermost layer of a multi-ply roof system applied over a compatible Polyglass base or interply membrane. Elastoflex VP G HP may be applied directly to certain non-combustible 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 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 Elastoflex VP G HP does not prevent the ventilation of existing construction.
- Do not apply over shingles or any granulated surface.
- While installing Elastoflex VP G HP:
 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 and fully torching the burnoff film while creating a pool of asphalt. Do not expose the reinforcement through over-heating. Pay close attention to the sidelap.
 4. Position successive rolls providing a minimum 6" end lap and 3" side lap. Asphalt bleed out shall be ¼" to ¾" on all seams.
 5. Matching loose granules may be sprinkled onto the bleed out.
- Details and flashing may be installed using hot asphalt or cold application 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.ca

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.ca

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