

ELASTOFLEX S6 HP

SBS (ELASTOMERIC) BASE/INTERPLY MEMBRANE - TYPE II

PRODUCT DESCRIPTION

Elastoflex S6 HP is a superior Styrene-Butadiene-Styrene (SBS) modified bitumen roofing membrane reinforced with a high performance non-woven polyester mat that provides flexibility and dimensional stability as well as excellent tear and puncture resistance. The proprietary SBS compound offers superior waterproofing and weathering physical properties.

Elastoflex S6 HP is available in a sand and film top and bottom surface. Application methods include heat welding, when a film bottom surface is selected, and hot asphalt or cold adhesive when the membrane is sand backed. Elastoflex S6 HP is an approved mechanically attached base sheet for the Velociflex system and can be used as part of a Polyglass warranted multi-ply system when combined with Elastoflex S6 G HP or other Polyglass SBS cap sheet.

TYPICAL APPLICATIONS

- High performance base or interply membrane in multi-ply low-slope roofing assemblies.
- Base sheet as part of the Velociflex system.
- New roofing, re-roofing and flashing reinforcement.

FEATURES AND BENEFITS

- Strong, versatile base sheet with multiple application methods.
- High Performance polyester mat which meets ASTM Type II criteria.
- Provides a superior substrate for other roofing membrane plies.

TECHNICAL DESCRIPTION*

Physical Properties	ASTM Method	ASTM Value	Typical Performance
Bottom Side Coating min., mils [mm]	D5147	40 Mils [1.0 mm]	40 mils [1.0mm]
Peak Load at 73°F [23°C]:	D5147	70 lbf/in [12.3 kN/m]	106 lbf/in [19 kN/m] MD 71 lbf/in [12 kN/m] XMD
Peak Load at 0°F [-18°C]:	D5147	100 lbf/in [17.5 kN/m]	165 lbf/in [29 kN/m] MD 109 lbf/in [19 kN/m] XMD
Elongation at Peak Load at 73°F [23°C]:	D5147	50%	71% MD 70% XMD
Elongation at Peak Load at 0°F [-18°C]:	D5147	20%	46% MD 61% XMD
Ultimate Elongation at 73°F [23°C]:	D5147	60%	92% MD 107% XMD
Tear Strength at 73°F [23°C]:	D5147	70 lbf [311 N]	167 lbf [743 N] MD 112 lbf [498 N] XMD
Low Temperature Flexibility [maximum]:	D5147	0°F [-18°C]	Pass
Dimensional Stability, max %:	D5147	1%	0%
Compound Stability [failed/no failures]:	D5147	215°F [102°C]	no failures

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



PRODUCT DATA**

Net Coverage (Approx).... 100 ft² (9.3 m²)
 Weight (Approx) 80 lbs (35.3 kg)
 Thickness (Nominal) 118 mils (3.0 mm)
 Roll Size 32'10" x 39 3/8" (10 m x 1 m)
 Rolls/Pallet.....25

**All values are nominal at time of manufacturing

APPLICABLE STANDARDS

- ASTM D6164, Type II, Grade S
- UL Classified
- FM Approved
- Florida Building Code
- Miami-Dade County Approved
- Texas Department of Insurance



PRODUCT CODES

- EPH3OSP (Sand/Film)
- EPH3OSS (Sand/Sand)
- EPH3OPP (Film/Film)



www.polyglass.us

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APPLICATION INSTRUCTIONS

Elastoflex S6 HP is intended to be used as a base sheet or interply in new or re-roof applications. Elastoflex S6 HP may be adhered directly to non-combustible substrates. Polyglass requires the installation of a compatible surfacing or cap sheet on top of Elastoflex S6 HP to complete the roofing system.

- 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 remove all abandoned roof penetrations.
- Concrete or steel decks shall be designed with proper expansion devices.
- Wood decks shall have all joints blocked and/or properly supported.
- Ensure the fire rating of the assembly over any substrate.
- Ensure the installation of Elastoflex S6 HP does not prevent the ventilation of existing construction.
- Do not apply directly over shingles or existing membrane roofing.
- While installing Elastoflex S6 HP:
 1. Start at the low point of the roof.
 2. Unroll the material and allow to relax.
 3. Install in a solid mopping of Type III or Type IV asphalt, PG 350 Mod Bit Adhesive, or fully torch the burnoff film creating a pool of asphalt. Pay close attention to the sidelap. Do not overheat to expose or compromise the reinforcement.
 4. Position successive rolls providing a minimum 6" end lap and 3" side lap. Asphalt bleed out shall be 1/4" to 3/8" on all seams.
 5. Laps shall be rolled with a 6" roller immediately after heat welding.
- For use in the Velociflex system as an in-seam attached base sheet, contact Polyglass Technical Services for installation instructions.
- 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.

MANUFACTURING FACILITIES

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

CORPORATE HEADQUARTERS

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Technical Service: (866) 802-8017

Questions? 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 2 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

