ELASTOSHIELD® TS

SBS (ELASTOMERIC) BASE/INTERPLY MEMBRANE

PRODUCT DESCRIPTION

Elastoshield TS is an SBS (elastomeric) modified bitumen membrane. This durable membrane is reinforced with a non-woven polyester mat which ensures flexibility and dimensional stability as well as superior tear and puncture resistance. The proprietary SBS compound offers excellent waterproofing and weathering physical properties. Elastoshield TS is configured with a sanded top surface and a burn-off film on the bottom surface for heat welded applications.

Elastoshield TS base/interply membrane can be used as part of a Polyglass warranted multiply system when combined with Elastoshield TS G or other approved Polyglass cap sheets.

TYPICAL APPLICATIONS

- Premium heat welded base/interply 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

- High quality SBS compound for exceptional long-term weathering performance.
- Non-woven polyester mat for superior puncture and tear resistance.
- Robust thickness for added durability.

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]	99.4 lbf/in [17.4 kN/m] MD 54.2 lbf/in [9.5 kN/m] XMD
Peak Load at 0°F [-18°C]:	D5147	70 lbf/in [12.3 kN/m]	136 lbf/in [24 kN/m] MD 116 lbf/in [20 kN/m] XMD
Elongation at Peak Load at 73°F [23°C]:	D5147	35%	71.8% MD 67.2% XMD
Elongation at Peak Load at 0°F [-18°C]:	D5147	20%	35% MD 30% XMD
Ultimate Elongation at 73°F [23°C]:	D5147	38%	127.3% MD 186.1% XMD
Tear Strength at 73°F [23°C]:	D5147	55 lbf [246 N]	133.5 lbf [593.7 N] - MD 78.5 lbf [349.0 N] - XMD
Low Temperature Flexibility [maximum]:	D5147	0°F [-18°C]	0°F [-18°C]
Dimensional Stability, max %:	D5147	1.00%	0.00% MD 0.00% XMD
Compound Stability [pass/fail]:	D5147	215°F [102°C]	Pass

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

PRODUCT DATA**

Coverage (Approx)..... 100 sq ft (9.3 m^2)
Weight (Approx) ..... 99 lbs (45 kg)
Thickness (Nominal)..... 160 mils (4.0 mm)
Roll Size .....32'10" × 39⅜" (10 m × 1 m)
Rolls/Pallet.....23

**All values are nominal at time of manufacturing

APPLICABLE STANDARDS

- ASTM D6164, Type I, Grade S
- UL Classified

PRODUCT CODES

- ES40SP

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APPLICATION INSTRUCTIONS

Elastoshield TS is intended to be used as a base sheet or interply sheet in new or re-roof applications. Elastoshield TS may be applied directly to certain noncombustible substrates. Polyglass requires the installation of a compatible surfacing or cap sheet on top of Elastoshield TS to complete the roofing system.

- Apply over clean, dry, dust and debris-free substrates. Prime concrete decks and required substrates prior to application with PG 100 Fast-Drying Asphalt Primer. Consult Polyglass Technical Service if alternate primer is allowed.
- 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 blocked and properly supported.
- Ensure the fire rating of the assembly over any combustible substrate.
- Ensure the installation of Elastoshield TS does not prevent the ventilation of existing construction.
- Do not apply over shingles or any granulated surface.
- While installing Elastoshield TS:
  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 by fully torching the burnoff film creating a pool of asphalt. Pay close attention to the sidelap.
  4. Do not overheat to expose or compromise the reinforcement.
  5. Position successive rolls providing a minimum 6" end lap and 3" side lap. Asphalt bleed out shall be ¼" to ⅜" on all seams.
  6. Details and flashing may be installed using torch techniques.
  7. 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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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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