

# ELASTOSHIELD® TS G FR

## SBS (ELASTOMERIC) GRANULATED CAP SHEET

### PRODUCT DESCRIPTION

Elastoshield TS G is an SBS (elastomeric) modified bitumen membrane with fire retardant additives, for use as the primary weathering surface in low-slope roofing. This durable granulated cap sheet 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 G FR is configured with a sand backing for hot mop or cold process applications or a burn-off film for heat welded applications.

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

### TYPICAL APPLICATIONS

- Premium cap sheet for low-slope multi-ply systems.
- 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.

### AVAILABLE COLORS

White (WH)

### APPLICATION INSTRUCTIONS

Elastoshield TS G FR is intended to be used as the primary weathering surface in new or re-roof applications. Elastoshield TS G FR is to be applied as the uppermost layer of a multi-ply roof system applied over a compatible Polyglass base or interply membrane. Elastoshield TS G FR may be applied directly to certain non-combustible substrates.

- 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 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 Elastoshield TS G FR does not prevent the ventilation of existing construction.
- Do not apply over shingles or any granulated surface.
- While installing Elastoshield TS G 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 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.
  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. 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](http://www.polyglass.ca).



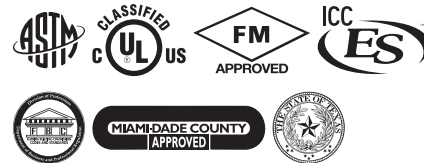
### PRODUCT DATA\*\*

Net Coverage (Approx).....	9.3 m <sup>2</sup> (100 ft <sup>2</sup> )
Weight (Approx) .....	49.2 kg (108 lbs)
Thickness (Nominal) .....	4.5 mm (180 mils)
Roll Size .....	10 m x 1 m (32'10" x 39 3/8")
Rolls/Pallet.....	20

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

### APPLICABLE STANDARDS

- ASTM D6164, Type I, Grade G
- UL Classified
- FM Approved
- ICC ESR-2018
- Florida Building Code
- Miami-Dade County Approved
- Texas Department of Insurance
- CSA A123.23-15, Type B, Grade 1



### PRODUCT CODES

- ESF45WHS (Granule/Sand)
- ESF45WHP (Granule/Film)



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### TECHNICAL DESCRIPTION\*

Properties		CSA A123.23-15, Type B, Grade 1	Tested Value	
Thickness – mm (mils)		3.3 (130)	4.5 (180)	
Seldedge thickness – mm (mils)		2.2 (85)	3.5 (140)	
Mass per unit area – kg/m <sup>2</sup> (lbs/100 ft <sup>2</sup> )		3.7 (75)	5.2 (107)	
Back surface coating thickness, min. – mm (mils)		1.0 (40)	2.0 (180)	
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)	9.3 (53) - MD 6.4 (36) - XMD	5.9 (34) - MD 5.5 (31) - XMD
	At -18 ± 2°C (-4 ± 3.6°F)	3.0 (17)	8.2 (47) - MD 6.8 (39) - XMD	7.9 (45) - MD 5.7 (33) - XMD
Peak load, min. – kN/m (lbf/in)	At 23 ± 2°C (73.4 ± 3.6°F)	See Tested Value	16.5 (94) - MD 10.3 (59) - XMD	16.8 (96) - MD 10.7 (61) - XMD
	At -18 ± 2°C (-4 ± 3.6°F)	See Tested Value	21.0 (120) - MD 15.9 (91) - XMD	24.0 (137) - MD 16.6 (95) - XMD
Elongation at peak load, %	At 23 ± 2°C (73.4 ± 3.6°F)	See Tested Value	49 - MD 56 - XMD	39 - MD 40 - XMD
	At -18 ± 2°C (-4 ± 3.6°F)	See Tested Value	56 - MD 61 - XMD	47 - MD 49 - XMD
Ultimate elongation at 23 ± 2°C, %		See Tested Value	81 - MD 88 - XMD	44 - MD 48 - XMD
Dimensional stability, max., %		1.0%	1 - MD 0 - XMD	
Low temperature flexibility, max. – °C (°F)		-18 (-4)	PASS	
Low temperature flexibility after UV weathering, max. – °C (°F)		-12 (10)	PASS	
Compound stability, min. – °C (°F)		102 (215)	PASS	
Resistance to puncture		PASS	PASS	
Granule embedment (Grade 1 only), max. – g (oz)		2.0 (0.07)	1.35 (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

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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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