

# MODIFLEECE™

## FLEECEBACK SBS (ELASTOMERIC) BASE SHEET

### PRODUCT DESCRIPTION

Modifleece is a fleece-backed Styrene-Butadiene-Styrene (SBS) modified bitumen roofing membrane base sheet for use in multi-ply low-slope roofing systems. Utilizing a unique laminating process, a specially formulated dual compound is integrated into the polyester fabric to create a monolithic bond between the two components. The self-adhered side laps are protected with a release film which is removed at the time of application, exposing the aggressive self-adhered SBS compound which provides immediate watertight seams.

The proprietary SBS top compound offers quality waterproofing and weathering physical properties while the polyester fleece bottom surface allows application to multiple substrates by using the Polyglass LRF CR low rise foam adhesive.

Modifleece is ideally suited for application directly over irregular or semi-rough surfaces such as Lightweight Insulating Concrete (LWIC) and re-cover over existing Modified Bitumen roofing systems and in areas where superior wind uplift resistance is required.

Modifleece is applied using Polyglass LRF CR low rise foam adhesive in a spatter pattern while the top film surface offers application of a variety of Polyglass self-adhered or torched membranes.

### TYPICAL APPLICATIONS

- Use as a base ply adhered to LWIC (Lightweight Insulating Concrete)
- Use as a base ply adhered to existing APP/SBS modified bitumen roofing system
- Over other approved substrates

### FEATURES AND BENEFITS

- Versatile: over semi-rough/irregular substrates; under torch or self-adhered APP/SBS cap sheets
- Tough polyester reinforced bottom surface fabric provides strong foam adhesive bond for higher wind uplift resistance
- Provides a strong and durable waterproofing substrate for other roofing membrane plies
- Quick dry-in adhered non-penetrating system: no fasteners needed
- Extend life of existing roof systems and avoid costly tear-offs – increase warranty coverage
- Easy to install self-adhered side laps with immediate watertight seal

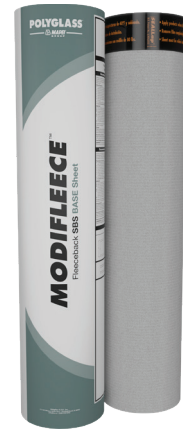
### TECHNICAL DESCRIPTION\*

Physical Properties	ASTM Method	ASTM Value	Typical Performance
Breaking Strength @ 77°F (25°C):	D146	44 lbf/in (7.7 kN/m)	56 lbf/in (9.8 kN/m)
Pliability	D146	No Failures	Pass
Moisture content, max at time of manufacture	D146	≤ 1.0%	0.0
Surfacing & stabilizer, max	D4601	< 65%	15%
Asphalt, min	D4601	> 7 lb/100ft <sup>2</sup> (342 g/m <sup>2</sup> )	26.0
Tensile Strength at maximum Load @ 77°F (25°C):	D 5147	8.8 kN/m (50 lbf/in)	11 kN/m (63 lbf/in)
Elongation @ maximum Load @ 77°F (25°C):	D 5147	35%	45% - MD 52% - XMD
Ultimate Elongation @ 77°F (25°C):	D 5147	38%	87% - MD 280% - XMD
Tear Resistance @ 77°F (25°C):	D 5147	246 N	552 N - MD 392 N - XMD
Low Temperature Flexibility @0°F (23°C)	D 5147	Pass	Pass -20°C
Dimensional Stability	D 5147	1%	Pass
Resistance to Puncture (Modifleece only)	E154		198 lbf (883 N)
Resistance to Puncture (Modifleece + Cap Sheet)	E154		261 lbf (1162 N)

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

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### PRODUCT DATA\*\*

Net Coverage (Approx) ...150 ft<sup>2</sup> (13.9 m<sup>2</sup>)  
 Weight (Approx) ..... 59 lbs (27 kg)  
 Thickness (Nominal) ..... 87 mils (2.2 mm)  
 Roll Size ..... 49'3" × 39 3/8" (15 m × 1 m)  
 Rolls/Pallet.....25

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

### APPLICABLE STANDARDS

- ASTM D4601, Type II
- UL Classified
- Florida Building Code



### PRODUCT CODES

- MODFCE



**POLYGLASS**



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### APPLICATION INSTRUCTIONS

Modifleece is intended to be used as a base sheet for new or re-roof applications. Modifleece may be applied directly to LWIC (Lightweight Insulating Concrete), as a recover over existing APP/SBS modified bitumen roofing systems, or other approved substrates using Polyglass LRF CR low rise foam adhesive in a spatter pattern. Modifleece requires the installation of a self-adhered or torched granulated Polyglass cap sheet to complete the roofing system.

The surface(s) must be relatively even, clean, dry, smooth, and free of sharp edges, fins, loose or foreign materials, oil, grease, and other materials that may damage the membrane. Rough surfaces that could damage the membrane must be overlaid with acceptable insulation/recover board.

Ponding water, snow, frost, dew, and ice are not acceptable work surfaces before installing. Ponding water must be dried for a period of 48–72 hours. Areas of apparent long-term moisture must be dried and “cured” properly prior to application.

The temperature of the Polyglass LRF CR should be between 70°–85°F (21°–29°C). The surfaces being bonded should be at 40°F (4°C) or above for proper application of Polyglass LRF CR. Temperatures outside this range may affect bonding range, dispensability and performance of the product.

While installing Modifleece on existing modified bitumen membranes, loose granules need to be removed by sweeping, blowing or power brooming. For substrates requiring cure time please follow manufacturers recommendations.

Install only as much Modifleece membrane as can be completed and made watertight during the working day. **Do not install membrane if fleece backing is wet.**

#### Membrane Installation:

1. Position the two first courses of Modifleece starting at the lowest portion of the deck pitch, in “shingle” fashion, ensuring proper water shedding. Ensure the position of the first course will align with the side lap of the following course a minimum 4”, as indicated by the pre-marked lay lines.
2. Fold back Modifleece membrane in “butterfly” fashion exposing fleece backing half of underside. Repeat this step for the following course.
3. Spray-apply Polyglass LRF CR adhesive in spatter pattern to the substrate and allow foam to set approximately 1–2 minutes before setting the Modifleece membrane into the Polyglass LRF CR Adhesive. The proper spatter pattern will yield a heavily textured, even coating of approximately ¼” to ½” nominal thickness height on the droplets of the sprayed adhesive.
4. Overlap the side laps and remove the release film, exposing the self-adhesive surface. Broom the side laps with a push broom.
5. Butt the end laps and seal with nine inch (9”) wide Elastoflex SA V Flashing Strips. Roll all self-adhered laps with a silicone roller.

6. Repeat steps 1-5 as needed to cover the remaining areas of the roof.
7. Roll the Modifleece membrane with a 75 pound weighted roller to ensure full embedment.

- For detailed drawings and recommended installation procedures of typical roof segments, such as end laps, drip edge and T-joint conditions, please refer to our website at, [www.polyglass.us](http://www.polyglass.us).

### 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 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](http://www.polyglass.us).



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