

# SENTINEL® P150 HFB

Polyester Reinforced, 60 mil, Fleece-Backed PVC Membrane

PRODUCT DATA SHEET PDS10302 - REV 230525



APPLICATIONS

ROOFING

## PRODUCT NUMBERS:

- P304 - 10 x 80 ft (3.0 x 24.4 m) - Roll (White)
- P304-T - 10 x 80 ft (3.0 x 24.4 m) - Roll (Tan)
- P304-G - 10 x 80 ft (3.0 x 24.4 m) - Roll (Gray)

## DESCRIPTION & FEATURES:

**SENTINEL P150 HFB** is a high-performance, fleece-backed, thermoplastic polyvinyl chloride (PVC) membrane designed for both steep and low slope applications. **SENTINEL P150 HFB** is reinforced with a tenacious, anti-wicking, weft-inserted polyester fabric that is encapsulated on both sides with a proprietary thermoplastic PVC formulation. **SENTINEL P150 HFB** incorporates a heavy fleece-backed underside and is available in a variety of colors, including white, gray and tan.

- Formulated utilizing only the highest quality polymers and plasticizers to produce consistent and reliable welds in a variety of ambient temperatures
- Manufactured with a minimum 30 mil thickness above scrim for a 60 mil sheet for durability and weathering resistance
- Reinforced with a high-density, polyester scrim that provides superior breaking strength as well as excellent puncture and fatigue resistance
- Heavy fleece backing helps eliminate the telegraphing of fasteners and insulation seams
- Excellent resistance to inorganic chemicals and bacterial growth
- Meets or exceeds requirements of ASTM D4434, Type III

## APPLICATION:



FULLY  
ADHERED



MECHANICALLY  
FASTENED

**SENTINEL P150 HFB** is applied to approved substrates via mechanically attached or fully adhered systems. For fully adhered systems, SENTINEL H<sub>2</sub>O Bonding Adhesive or DUOTACK SPF are approved. Please refer to the specific product data sheet for application guidelines. For mechanically attached systems, please consult your SOPREMA representative for specific fastening patterns. All laps must be heat-welded to ensure a water tight seal.

Refer to the SOPREMA PVC Membrane Roofing Technical Manual for complete application guidelines.

## STORAGE:

Store rolls in a clean, dry location and cover as necessary to protect from environmental damage such as extreme cold, heat or moisture.

## TESTING & APPROVALS:



FLORIDA BUILDING CODE



NOA # 20-0825.11



LARR # 26102

## WARRANTY:

For more information refer to [www.SOPREMA.us](http://www.SOPREMA.us) or contact your SOPREMA representative.



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## TECHNICAL INFORMATION & TESTING:

| SHEET PROPERTIES |  |
|------------------|--|
| PROPERTY         | VALUE                                  |
| Technology       | Thermoplastic polyvinyl chloride (PVC) |
| ASTM standard    | ASTM D4434, Type III                   |
| Reinforcement    | Polyester (18 x 9, weft inserted)      |
| Back surfacing   | Heavy fleece-backed (5.5 oz/yd²)       |

| DIMENSIONS & MASS                         |               |                  |
|---|---------------|------------------|
| PROPERTY                                  | VALUE         | ASTM TEST METHOD |
| Length, ft (m)                            | 80 (24.4)     | D4434            |
| Width, ft (m)                             | 10 (3.0)      | D4434            |
| Coverage,* ft² (m²)                       | 800 (74.3)    | D4434            |
| Roll weight, lb (kg)                      | 303 (137.4)   | D4434            |
| Rolls per pallet                          | 10            | D4434            |
| Pallet weight, lb (kg)                    | 3,180 (1,442) | D4434            |
| Thickness, mils (mm)                      | 60 (1.5)      | D4434            |
| Thickness over scrim, mils (mm)           | 30 (0.76)     | D4434            |
| Net mass per unit area, lb/100 ft² (g/m²) | 39 (1,905)    | D4434            |

\*Coverage rate as reported assumes installation using side and end lap recommendations.

| PHYSICAL PROPERTIES                                     |           |           |                  |
|---|-----------|-----------|------------------|
| PROPERTY  | MD        | XMD       | ASTM TEST METHOD |
| Peak load, lbf/in (kN/m)                                | 475 (83)  | 325 (57)  | D751             |
| Elongation at peak load, %                              | 30        | 30        | D751             |
| Seam strength (min 75% of breaking strength)            | Pass      | Pass      | D751             |
| Tear strength, lbf (N)                                  | 145 (645) | 85 (378)  | D751, Proc. B    |
| Trapezoidal tear, lbf (N)                               | 160 (172) | 130 (578) | D751             |
| Low temperature flexibility, °F (°C)                    | Pass      | Pass      | D2136            |
| Dimensional stability, %                                | < 0.1     | < 0.1     | D1204            |
| Change in weight after immersion in water, %            | < 3       | < 3       | D570             |
| Static puncture resistance, @ ≥ 33 lbf (15 kg), minimum | Pass      | Pass      | D5602            |
| Dynamic puncture resistance, @ 10 J, minimum            | Pass      | Pass      | D5635            |

Data is represented by average values, unless noted otherwise.

## SUSTAINABILITY



| COOL ROOF RATING          |                   |        |                   |        |         |        |
|---------------------------|-------------------|--------|-------------------|--------|---------|--------|
| PRODUCT                   | SOLAR REFLECTANCE |        | THERMAL EMITTANCE |        | SRI     |        |
|                           | INITIAL           | 3 YEAR | INITIAL           | 3 YEAR | INITIAL | 3 YEAR |
| SENTINEL P150 HFB (White) | 0.85              | 0.73   | 0.89              | 0.88   | 108     | 90     |
| SENTINEL P150 HFB (Tan)   | 0.72              | 0.58   | 0.85              | 0.88   | 88      | 68     |
| SENTINEL P150 HFB (Gray)  | 0.46              | 0.38   | 0.89              | 0.89   | 53      | 42     |



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