

PRODUCT DATA SHEET

DESCRIPTION & FEATURES

SENTINEL P150 HFB is a high performance, polyester reinforced, thermoplastic polyvinyl chloride (PVC) roof membrane, specially designed to provide unmatched flexibility and long-term performance. SENTINEL membranes provide the proven fire and chemical resistance of PVC along with superior weldability, making it easy to conform to complex geometries. SENTINEL P150 HFB incorporates a heavy fleece-backed underside and is available in an ENERGY STAR® approved white as well as a variety of colors, including gray and tan.

STORAGE

Store rolls in a clean, dry location and cover as necessary to protect rolls from environmental damage such as extreme cold, heat, or moisture. Monitor varying environmental conditions during storage, handling and application of SENTINEL P150 HFB.

APPLICATION

SENTINEL P150 HFB can be installed in mechanically attached or fully adhered systems. For fully adhered systems, SENTINEL H2O bonding adhesive is approved. Please refer to the specific adhesive 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.

COOL ROOF RATING

| PRODUCT | SOLAR REFLECTANCE | | THERMAL EMITTANCE | | SRI | |
|------------------------------|-------------------|----------------|-------------------|----------------|---------|----------------|
| | initial | 3 year | initial | 3 year | initial | 3 year |
| SENTINEL P150 HFB White | 0.85 | Pending 3 year | 0.89 | Pending 3 year | 108 | Pending 3 year |
| SENTINEL P150 HFB Light Grey | 0.46 | pending 3 year | 0.89 | pending 3 year | 53 | pending 3 year |
| SENTINEL P150 HFB Light Tan | 0.72 | pending 3 year | 0.85 | pending 3 year | 88 | pending 3 year |

APPLICATION



MECHANICALLY FASTENED



FULLY ADHERED

QUICK FACTS

| ROLL WIDTH (ft) | ROLL LENGTH (ft) | COVERAGE (ft ²) | THICKNESS (mils) | ROLL WEIGHT (lb) | ROLLS/PALLET (pallet weight) |
|-----------------|------------------|-------------------------------|------------------|-------------------|-------------------------------|
| 10 (3.0 m) | 80 (24.4 m) | 800 (74.3 m ²) | 60 (1.5 mm) | 303 (137.4 kg) | 10 (3,180 lb/ 1,442 kg) |

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



TECHNICAL INFORMATION & TESTING

SHEET PROPERTIES

| | |
|----------------|---------------------|
| Reinforcement | Non-woven polyester |
| Back surfacing | Heavy fleece-backed |

DIMENSIONS & MASS

| PROPERTY | | TEST METHOD |
|---|------------|-------------|
| Thickness, mils (mm) (without fleece backing) | 60 (1.5) | ASTM D4434 |
| Thickness over scrim, mils (mm) | 30 (0.76) | ASTMD4434 |
| Net mass per unit area, lb/100ft ² (g/m ²) | 38 (1,850) | ASTM D4434 |

PHYSICAL PROPERTIES

| PROPERTY | MD | XMD | TEST METHOD |
|---|----------|----------|-------------|
| Breaking strength, lbf/in (kN/m) | 500 (88) | 375 (66) | ASTM D751 |
| Elongation at break, minimum, % | 30 | 30 | ASTM D751 |
| Seam strength (min 75% of breaking strength) | Pass | Pass | ASTM D751 |
| Low temperature bend, @ -40°F (-40°C) | Pass | Pass | ASTM D2136 |
| Linear dimensional change, % | < 0.1 | < 0.1 | ASTM D1204 |
| Change in weight after immersion in water, % | < 3 | < 3 | ASTM D570 |
| Static puncture resistance, @ ≥ 33 lbf (15 kg), minimum | Pass | Pass | ASTM D5602 |
| Dynamic puncture resistance, @ 10 J, minimum | Pass | Pass | ASTM D5635 |

* Data is represented by average values, unless noted otherwise.

TESTING & APPROVALS

