

SENTINEL® P200 HFB

Polyester Reinforced, 80 mil, Fleece-Backed PVC Membrane

DESCRIPTION

SENTINEL P200 HFB is a high-performance, fleece-backed, thermoplastic polyvinyl chloride (PVC) membrane designed for both steep and low slope applications. SENTINEL P200 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 P200 HFB incorporates a heavy fleece-backed underside and is available in a variety of colors, including white, gray and tan.

ADVANTAGES

- ▶ 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 40 mil thickness above scrim for a 80 mil sheet, adding durability and weathering resistance
- ▶ Reinforced with a high-density, polyester scrim that provides superior breaking strength as well as excellent puncture and fatigue resistance and durability
- ▶ 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

SENTINEL P200 HFB is applied to approved substrates via mechanically attached or fully adhered systems. For fully adhered systems, SENTINEL H2O Bonding Adhesive or DUOTACK SPF are approved. Please refer to the specific product data sheet for application guidelines. For mechanically attached, please consult your Performance Roof Systems' representative for specific fastening patterns. All laps must be heat-welded to ensure a water tight seal.

Refer to Performance Roof Systems' published technical literature for additional details and application requirements.



STORAGE & HANDLING

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

PRODUCT NUMBERS

- P305 - 10 x 65 ft (3.0 x 19.8 m) - Roll (White)
- P305-T - 10 x 65 ft (3.0 x 19.8 m) - Roll (Tan)
- P305-G - 10 x 65 ft (3.0 x 19.8 m) - Roll (Gray)

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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./yd ²)

DIMENSIONS & MASS

PROPERTY	VALUE	TEST METHOD
Length, ft (m)	65 (19.8)	D4434
Width, ft (m)	10 (3.0)	D4434
Coverage, * ft ² (m ²)	650 (60.4)	D4434
Roll weight, lb (kg)	354 (160.6)	D4434
Rolls per pallet	10	D4434
Pallet weight, lb (kg)	3,690 (1,674)	D4434
Thickness, mils (mm)	80 (2.0)	D4434
Thickness over scrim, mils (mm)	40 (1.0)	D4434
Net mass per unit area, lb/100 ft ² (g/m ²)	49 (2,368)	D4434

* All values shown are nominal and subject to normal manufacturing tolerances.
 ** Coverage rate as reported assumes installation using side and end lap recommendations.

TECHNICAL CHARACTERISTICS*

PROPERTY	MD	XMD	TEST METHOD
Breaking strength; lbf/in	500 (88)	350 (61)	ASTM D751
Elongation at break; %	30	30	ASTM D751
Seam strength; min. 75% of breaking strength	Pass	Pass	ASTM D751
Tearing strength; lbf	115 (512)	65 (289)	ASTM D751, Proc. B
Trapezoidal tear; lbf	185 (823)	155 (689)	ASTM D751
Low temperature bend @ -40°F	Pass	Pass	ASTM D2136
Linear dimensional change @ 176°F; %	< 0.1	< 0.1	ASTM D1204
Water absorption; %	< 3	< 3	ASTM D570
Static puncture resistance @ ≥ 73°F; lbf (min. 15 kg)	Pass	Pass	ASTM D5602
Dynamic puncture resistance; 20 J minimum	Pass	Pass	ASTM D5635

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

ENERGY AND ENVIRONMENT

PRODUCT	SOLAR REFLECTANCE ASTM C1549		THERMAL EMITTANCE ASTM E1371		SRI ASTM E1980	
	INITIAL	3-YEAR	INITIAL	3-YEAR	INITIAL	3-YEAR
White	0.85	0.73	0.89	0.88	108	90
Gray	0.46	0.38	0.89	0.89	53	42
Tan	0.72	0.58	0.85	0.88	88	68



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