

# SENTINEL® P200

Polyester Reinforced, 80 mil, Bare-Backed PVC Membrane



APPLICATIONS

ROOFING

PRODUCT DATA SHEET PDS10314 - REV 230504

## PRODUCT NUMBERS:

- P303 - 10 x 65 ft (3.0 x 19.8 m) - Roll (White)
- P303-T - 10 x 65 ft (3.0 x 19.8 m) - Roll (Tan)
- P303-G - 10 x 65 ft (3.0 x 19.8 m) - Roll (Gray)
- P303-H - 5 x 65 ft (1.5 x 19.8 m) - Roll (White)
- P303-H-T - 5 x 65 ft (1.5 x 19.8 m) - Roll (Tan)
- P303-H-G - 5 x 65 ft (1.5 x 19.8 m) - Roll (Gray)

## DESCRIPTION & FEATURES:

**SENTINEL P200** is a high-performance, bare-backed, thermoplastic polyvinyl chloride (PVC) membrane designed for both steep and low slope applications. **SENTINEL P200** 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** 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 40 mil thickness above scrim for a 80 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
- Excellent resistance to inorganic chemicals and bacterial growth
- Meets or exceeds requirements of ASTM D4434, Type III

## APPLICATION:



FULLY  
ADHERED



MECHANICALLY  
FASTENED



INDUCTION  
WELDED

**SENTINEL P200** is applied to approved substrates via mechanically attached, fully adhered or induction welded systems. For fully adhered systems, SENTINEL H<sub>2</sub>O or SENTINEL S Bonding adhesives are approved. Please refer to the specific product data sheet for application guidelines. For mechanically attached and induction welded 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

MIAMIDADE COUNTY  
APPROVED

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	Bare-backed

DIMENSIONS & MASS			
PROPERTY	VALUE		ASTM TEST METHOD
Length, ft (m)	65 (19.8)	65 (19.8)	D4434
Width, ft (m)	10 (3.0)	5 (1.5)	D4434
Coverage,* ft <sup>2</sup> (m <sup>2</sup> )	650 (60.4)	325 (30.2)	D4434
Roll weight, lb (kg)	329 (149.2)	165 (74.8)	D4434
Rolls per pallet	10	10	D4434
Pallet weight, lb (kg)	3,440 (1,560)	1,700 (771)	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 <sup>2</sup> (g/m <sup>2</sup> )	46 (2,228)		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)	440 (77)	300 (53)	D751
Elongation at peak load, %	30	30	D751
Seam strength (min 75% of breaking strength)	Pass	Pass	D751
Tear strength, lbf (N)	115 (512)	60 (267)	D751, Proc. B
Trapezoidal tear, lbf (N)	150 (667)	105 (467)	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



PRODUCT	COOL ROOF RATING					
	SOLAR REFLECTANCE		THERMAL EMITTANCE		SRI	
	INITIAL	3 YEAR	INITIAL	3 YEAR	INITIAL	3 YEAR
SENTINEL P200 (White)	0.85	0.73	0.89	0.88	108	90
SENTINEL P200 (Tan)	0.72	0.58	0.85	0.88	88	68
SENTINEL P200 (Gray)	0.46	0.38	0.89	0.89	53	42

