

PRODUCT DATA SHEET

DESCRIPTION & FEATURES

SENTINEL P150 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 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.

APPLICATION

SENTINEL P150 can be installed in mechanically attached or fully adhered systems. For fully adhered systems, SENTINEL H2O or SENTINEL S Bonding adhesives are 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.

APPLICATION



MECHANICALLY FASTENED



FULLY ADHERED

COOL ROOF RATING

PRODUCT	SOLAR REFLECTANCE		THERMAL EMITTANCE		SRI	
	initial	3 year	initial	3 year	initial	3 year
SENTINEL P150 White	0.85	0.73	0.89	0.88	108	90
SENTINEL P150 Light Grey	0.46	pending	0.89	pending	53	pending
SENTINEL P150 Light Tan	0.72	pending	0.85	pending	88	pending

QUICK FACTS

PRODUCT #	ROLL WIDTH (see below)	ROLL LENGTH (ft)	COVERAGE (ft²)	THICKNESS (mils)	ROLL WEIGHT (lb)	ROLLS/PALLET (pallet weight)
P302 (White) P302-T (Tan) P302-G (Grey)	10' (3.0 m)	100 (30.5 m)	1,000 (92.9 m²)	60 (1.5 mm)	341 (154.7 kg)	10 (3,560 lb/ 1,615 kg)
P302-H (White) P302-H-T (Tan) P302-H-G (Grey)	5' (1.5 m)	100 (30.5 m)	500 (46.5 m²)	60 (1.5 mm)	171 (77.5 kg)	10 (1,760 lb/ 798 kg)
P308 (White)	6" (15.24 cm)	100 (30.5 m)	50 (4.65 m²)	60 (1.5 mm)	17.1 (7.75 kg)	20 (342 lb/ 155 kg)

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



TECHNICAL INFORMATION & TESTING

SHEET PROPERTIES

Reinforcement	Polyester (18X9, weft inserted)
Back surfacing	Bare-backed
ASTM Type	ASTM 4434, Type III

DIMENSIONS & MASS

PROPERTY		TEST METHOD
Thickness, mils (mm)	60 (1.5)	ASTM D4434
Thickness over scrim, mils (mm)	30 (0.76)	ASTM D4434
Net mass per unit area, lb/100ft ² (g/m ²)	35 (1,722)	ASTM D4434

PHYSICAL PROPERTIES

PROPERTY	MD	XMD	TEST METHOD
Breaking strength, lbf/in (kN/m)	425 (74)	275 (48)	ASTM D751
Elongation at break, minimum, %	30	30	ASTM D751
Seam strength (min 75% of breaking strength)	Pass	Pass	ASTM D751
Tearing strength, lbf (N)	115 (512)	60 (267)	ASTM D751, Proc. B
Trapezoidal tear, lbf (N)	135 (601)	90 (400)	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

