

SENTINEL[®] SILVERART P150



APPLICATIONS

ROOFING

PRODUCT DATA SHEET PD10191-Rev. 220310

DESCRIPTION:

SENTINEL SilverArt 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 SilverArt P150 is manufactured using a specialized process that allows aluminum powder to be incorporated into the PVC blend, producing a non-pigmented aluminum-PVC membrane that will not chalk or fade. SENTINEL SilverArt P150 provides the aesthetics of an aluminum roof while incorporating SOPREMA's ACRYLIC SHIELD™ technology to ensure the aluminum will not oxidize, but rather maintain its color.

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 SilverArt P150.

APPLICATION:

Sentinel SilverArt P150 may be mechanically fastened or fully adhered. For fully adhered systems, SENTINEL H2O or SENTINEL S Bonding Adhesives are approved adhesives. 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. Any field cut seams require using SENTINEL Cut Edge Sealant.

APPLICATION



MECHANICALLY FASTENED



FULLY ADHERED

PRODUCT	SOLAR REFLECTANCE (INITIAL)	THERMAL EMITTANCE (INITIAL)	SRI (INITIAL)
SENTINEL SilverArt P150	0.884	0.78	44.32

QUICK FACTS

PRODUCT #	ROLL WIDTH (ft)	ROLL LENGTH (ft)	COVERAGE (ft ²)	THICKNESS (mils)	ROLL WEIGHT (lb)	ROLLS/PALLET (pallet weight)
M101	5.25 (1.6 m)	65.5 (20.0 m)	344 (32.0 m ²)	60 (1.5 mm)	151 (68.5 kg)	9 (1,410 lb/ 640 kg)
M103	1.75 (0.5 m)	65.5 (20.0 m)	114 (10.6 m ²)	60 (1.5 mm)	50 (22.8 kg)	9 (500 lb/ 227 kg)

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



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SHEET PROPERTIES

Reinforcement	Non-woven polyester
Back surfacing	Bare-backed

DIMENSIONS & MASS

PROPERTY		TEST METHOD
Thickness, mils (mm)	60 (1.5)	ASTM D4434
Net mass per unit area, lb/100ft ² (g/m ²)	44 (2,145)	ASTM D4434

PHYSICAL PROPERTIES

PROPERTY	MD	XMD	TEST METHOD
Breaking strength, lbf/in (kN/m)	275 (48)	240 (42)	ASTM D751
Elongation at break, %	25	25	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, %	<.01	<.01	ASTM D1204
Static puncture resistance, @ ≥ 33 lbf (15 kg) min	Pass	Pass	ASTM D5602
Dynamic puncture resistance, @ 20 J min	Pass	Pass	ASTM D5635
UV EXPOSURE	Cracking (7x magnification) @ 10,000 Hours	None	ASTM G154
	Discoloration (by observation) @ 10,000 Hours	Negligible	ASTM G154
	Crazing (7x magnification) @ 10,000 Hours	None	ASTM G154

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

