

SENTINEL® KEE P150

60-mil Bare-Backed KEE Membrane



APPLICATIONS

ROOFING

PRODUCT DATA SHEET PDS10313 - REV 230123

PRODUCT NUMBERS:

- P402 - 10 x 100 ft (3.0 x 30.5 m) - Roll
- P402-H - 5 x 100 ft (1.5 x 30.5 m) - Roll
- P402-D - 2.5 x 100 ft (0.76 x 30.5 m) - Roll
- P408 - 0.5 x 100 ft (0.15 x 30.5 m) - Roll

DESCRIPTION & FEATURES:

SENTINEL KEE P150 is a high-performance, polyester reinforced, thermoplastic roofing membrane that utilizes DOW® ELVALOY™ KEE (Ketone Ethylene Ester) Terpolymer.

- Formulated utilizing only the highest quality polymers and plasticizers, to produce consistent reliable welds in a variety of ambient temperatures
- 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

USES:

SENTINEL KEE P150 is used as a component in the following systems:

USE	OVERLYING MATERIAL
Field Membrane ¹	N/A
Flashing Membrane ^{1,2}	N/A

¹ Refer to SOPREMA's PVC Membrane Roofing Technical Manual

² Refer to SOPREMA'S PVC/SBS Hybrid Membrane Roofing Technical Manual

APPLICATION:



FULLY ADHERED



FASTENED



INDUCTION WELDED

SENTINEL KEE P150 may be fully-adhered to approved substrates using SENTINEL S adhesive. The membrane may be fastened to roof decks using approved in-seam fastening or induction-weld fastening options. All membrane side and end-laps are hot-air welded watertight.

Contact SOPREMA or refer to published guidelines for additional details and application requirements.

STORAGE:

Store 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

MIAMI-DADE COUNTY APPROVED

NOA # 20-0825.11

WARRANTY:

For more information refer to www.SOPREMA.us or contact your SOPREMA representative.



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TECHNICAL INFORMATION & TESTING:

SHEET PROPERTIES	
PROPERTY	VALUE
Technology	Thermoplastic polyvinyl chloride (PVC) containing KEE
ASTM Standard	ASTM D4434, Type III
Reinforcement	Polyester (18 x 9, weft inserted)
Back surfacing	Bare-backed

DIMENSIONS & MASS					
PROPERTY	VALUE				ASTM
Width, ft (m)	10 (3.0)	5 (1.5)	2.5 (0.76)	0.5 (0.15)	D4434
Length, ft (m)	100 (30.5)				D4434
Coverage,* ft ² (m ²)	1,000 (92.9)	500 (46.5)	250 (23.3)	50 (4.65)	D4434
Roll weight, lb (kg)	341 (154.7)	171 (77.6)	86 (39.0)	17 (7.7)	D4434
Rolls per pallet	10	10	10	20	D4434
Pallet weight, lb (kg)	3,560 (1,615)	1,760 (798)	880 (399)	342 (155)	D4434
Thickness, mils (mm)	60 (1.5)				D4434
Thickness over scrim, mils (mm)	30 (0.8)				D4434
Net mass per unit area, lb/100 ft ² (g/m ²)	34 (1,666)				D4434

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

PHYSICAL PROPERTIES			
PROPERTY	MD	XMD	ASTM
Peak load, lbf/in (kN/m)	430 (75)	300 (53)	D751
Elongation at peak load, %	25	25	D751
Tear strength, lbf (N)	145 (645)	85 (378)	D751, Proc. B
Trapezoidal tear, lbf (N)	160 (712)	130 (578)	D751
Low temperature flexibility, °F (°C)	Pass		D2136
Dimensional stability, %	< 0.1		D1204
Seam strength (min 75% of breaking strength)	Pass		D751
Change in weight after immersion in water, %	< 3		D570
Static puncture resistance, @ ≥ 33 lbf (15 kg), minimum	Pass		D5602
Dynamic puncture resistance, @ 10 J, minimum	Pass		D5635

Data is represented by average values, unless noted otherwise.

SUSTAINABILITY



COOL ROOF RATING						
PRODUCT	SOLAR REFLECTANCE		THERMAL EMITTANCE		SRI	
	INITIAL	3 YEAR	INITIAL	3 YEAR	INITIAL	3 YEAR
SENTINEL KEE P150 (White)	0.85	0.73	0.89	0.88	108	90

* CRRC Rapid Ratings. Refer to Cool Roof Ratings Council (CRRC).

