

# SENTINEL® KEE P150

60-mil Bare-Backed KEE Membrane

PRODUCT DATA SHEET PDS10313 - REV 240108



APPLICATIONS

ROOFING

## 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 <sup>1</sup>    | N/A                |
| Flashing Membrane <sup>1</sup> | N/A                |

<sup>1</sup> Refer to SOPREMA's KEE Membrane Roofing Technical Manual

## APPLICATION:



FULLY  
ADHERED



FASTENED



INDUCTION  
WELDED

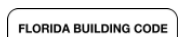
**SENTINEL KEE P150** can be mechanically attached or fully adhered. Please refer to the specific adhesive data sheet for application guidelines. For mechanically attached systems, please consult your SOPREMA KEE Membrane Roofing Technical Manual for specific fastening patterns. All laps must be heat-welded to ensure a watertight seal.

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:



NOA # 20-0825.11

## 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) containing KEE |
| ASTM Standard    | ASTM D4434, Type III                                  |
| Reinforcement    | Polyester (18 x 9, weft inserted)                     |

| 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,* ft² (m²)                       | 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 ft² (g/m²) | 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) | 0.86              | 0.71   | 0.89              | 0.88   | 108     | 87     |



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