

DESCRIPTION

SOPRALENE 180 membranes are composed of a non-woven polyester reinforcement and SBS modified bitumen. **SOPRALENE FLAM 180** can be used as a waterproofing membrane on foundation walls and others horizontal or vertical below grade concrete surfaces.

FOR COMPLETE INFORMATION ON APPLICATION AND SYSTEMS, PLEASE CONSULT OUR SPECIFICATION MANUAL.

PROPERTIES

| Composition | SOPRALENE | | | |
|--------------------|---------------------------|-------------|--|--|
| | FLAM 180 | FLAM 180 GR | | |
| Thickness | 3.0 mm | 4.0 mm | | |
| Dimension | 10 × 1 m 8 × 1 m | | | |
| Weight | 36 kg 39 kg | | | |
| Top Face | Film | Granules | | |
| Underface | Thermofusible plasic film | | | |
| Reinforcement | Non-woven polyester | | | |
| Storage | Upright on pallet | | | |
| Application method | Torch applied | | | |

| Properties | SOPRALENE | Standards | |
|--|-------------------------------------|------------------------------------|--|
| Strain energy, (MD/XD) | 9.0 / 7.0 kN/m | | |
| Breaking strength, (MD/XD) | 17 / 12.5 kN/m | | |
| Ultimate elongation, (MD/XD) | 60 / 65 % | | |
| Tear resistance | 60 N | | |
| Static puncture | 400 N | | |
| Dimensional stability, (MD/XD) | -0.3 / 0.3% | | |
| Water Vapour Transmission (ASTM E96 method B) | 0.21 ng / Pa.s.m ² | As per CAN/CGSB-37.56-M, 9th draft | |
| Plastic flow | 105 °C | | |
| Cold bending* | -30 °C | | |
| Lap adhesion - Initial - 5 days at 50°C - 14 days at 70°C | 23.5 kN/m 24.0 kN/m 24.0 kN/m | | |

 * Initial and after 90 days ageing at 70 $^{\circ}\text{C}.$

(All values are nominal)







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ROOFING

FOUNDATIONS

SOPRALENE 180

TECHNICAL DATA SHEET APTDS-E-05-05

ADDITIONAL CHARACTERISTICS

| Properties | | Values | | |
|-------------------------------|--|---------------------------|----------------------------------|--|
| | Test method | Machine Direction (MD) | Cross Machine Direction (CMD) | |
| Abrasion resistance* | AS 1580.403.2 | Pass | | |
| Bond strength to concrete | ASTM C794 | 1500 N/m | | |
| Cyclic movement | AS 4654.1 | Pass | | |
| Field seam strength | ASTM D1876 | 36.5 ±8 N/2.5cm | | |
| Heat ageing | AS 4654.1 (AS 1145.3) | Pass | | |
| Heat resistance | ASTM D5147 | 110°C | | |
| Ultraviolet resistance* | AS 4654.1 (AS 1145.3) (ASTM D4799) | Pass | | |
| Water vapor transmission rate | ASTM E96 | 0 perm** | | |

* for self-protected membrane SOPRALENE FLAM 180 GR.

** The results values are below the variation of the equipment. We consider that the sample have no water vapor transmission.







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