

## 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 <sup>2</sup>	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		

 $^{\ast}$  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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