

International Company For Insulation Technology (Insutech)

Test Report

Product : InsuGrand Polyester 4mm

TEST	Measuring Unit	TEST METHOD	InsuGrand (Polyester)
			APP Modified Bitumen Membrane With Non-Woven Polyester Reinforcement
Thickness	mm	EN 1849-1	4 (± 5%)
Width	m	EN 1848-1	1 (± 1%)
Length	m	EN 1848-1	10 (± 1%)
Straightness	mm	EN 1848-1	± 6
Carrier (Polyester weight)	g/m ²		180
Softening point (R&B)	° C	ASTM D- 36	≥ 150
Penetration @ 25 ° C	dmm	ASTM D- 5	20-35
Tensile Strength (max)			
<i>Longitudinal</i>	N/5cm	EN 12311-1	950 (± 20%)
<i>Transverse</i>	N/5cm	EN 12311-1	750 (± 20%)
Elongation @ Break			
<i>Longitudinal</i>	%	EN 12311-1	50 (± 15)
<i>Transverse</i>	%	EN 12311-1	50 (± 15)
Tearing Strength (Nail-Shank)			
<i>Longitudinal</i>	N	ASTM D 4073	400
<i>Transverse</i>	N	ASTM D 4073	300
Heat Flow	° C	ASTM D-5147, EN 1110	110 (- 10)
Cold Temperature Flexibility	° C	ASTM D-5147, EN 1109	- 5
Dimensional Stability			
<i>Longitudinal</i>	%	EN 1107-1	-0.5
<i>Transverse</i>	%	EN 1107-1	0.5
Resistance To Static Loading	Kg	EN 12730	20
Resistance To Impact	mm	EN 12691	1250
Water Tightness	60 Kpa	EN 1928:2000	Pass
Water Absorption	%	ASTM D-5147, UNI 8202/22	≤ 0.15
Thermal Ageing in air (in oven at 70 ± 2°C)	-	EN 1296	4 weeks passed

* Given test results based on 4mm thick specimens.

* Due to continues product development, INSUTECH reserves the right to modify technical specifications without prior notice.

* This publication revokes any previous one. Issue. 2 / © 2010

* Testing Date : / /

* Approval ;

* Stamp ;

