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CENTRE FOR TEXTILE SCIENCE AND ENGINEERING

DEPARTMENT OF MATERIALS, TEXTILES AND CHEMICAL ENGINEERING

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TEST REPORT 17-0085-01

Samples received :

Name	***Date of receipt***
Motion	26/01/2017
Vision	26/01/2017

Aim of the test :

Determination of the thermal resistance

Test conditions :

Thermal resistance

Standard:	ISO 8302 (1991)*, EN 12667 (2001)*
Method:	1 plate method: λ - meter EP 500 A sample is placed between a cold and a warm plate. The cold and the warm plate are kept at constant temperature. The amount of energy needed to keep the temperature of the warm and cold plate constant, is an indication for the heat transmission through the sample. λ : thermal conductivity R: thermal resistance
Pre treatment	None
Number of tests:	1 measurement per temperature
Test conditions:	20 ± 2°C and 65 ± 4 % relative humidity

The tests were finished in week 5/2017.

BELAC ISO/IEC17025 055-test

OBTAINED RESULTS

- **Motion**

Thermal resistance

Thickness sample : 7.9 mm measured at a pressure of 1000 Pa (to keep out the air)

Temperature	**Temperature difference (K)**	**R (m^2.K/W)**	**λ (mW/m.K)**
20	10	0.096	82.09
24	10	0.095	82.98
32	10	0.093	85.32
Average		**0.095**	**83.46**
CV (%)		*2.0*	*2.0*

- **Vision**

Thermal resistance

Thickness sample : 7.7 mm measured at a pressure of 1000 Pa (to keep out the air)

Temperature	**Temperature difference (K)**	**R (m^2.K/W)**	**λ (mW/m.K)**
20	10	0.092	83.76
24	10	0.091	84.56
32	10	0.089	86.68
Average		**0.091**	**85.00**
CV (%)		*1.8*	*1.8*

Didier Van Daele
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