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**Test report 43/3/23**

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13/02/2023

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Customer: Ms. Oda Nimmer  
 Assignment from: 03/02.2023  
 Received: 06/02/2023

Assignment:

No.	Test	Standard
		Test conditions
1.	specific thermal conductivity $\lambda$	Alambeta method
		Temperature difference 10 K contact pressure of the plunger 10 cN/cm <sup>2</sup> Number of test specimen: 5
2.	thermal resistance r	Alambeta method
		Temperature difference 10 K contact pressure of the plunger 10 cN/cm <sup>2</sup> Number of test specimen: 5
3.	specific heat capacity $c_v$	Alambeta method
		Temperature difference 10 K contact pressure of the plunger 10 cN/cm <sup>2</sup> Number of test specimen: 5

Samples:

Coding for test	Identification by customer
Sample 1	<u>Woven fabric</u> Article 1309 Material composition: 100 % PES

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Thermal resistance r

r	Sample 1	
	right side	reverse side
$\bar{x}$	20.2	20.5
$x_{max}$	20.8	20.8
$x_{min}$	19.7	20.2

The higher the value of the heat resistance, the poorer the heat is transported and dissipated.

3. Specific heat capacity

$c_v$  = volumic heat storage capacity of a material

$$c_v \text{ in } \frac{\text{mW} \cdot \text{s}}{\text{W} \cdot \text{m}^3} 10^3$$

mW	Milliwatt
s	seconds
K	Kelvin
$\text{m}^3$	cubic meter

$c_v$	Sample 1	
	right side	reverse side
$\bar{x}$	337.0	606.8
$x_{max}$	353.1	645.2
$x_{min}$	314.7	577.1

The higher the value of the heat capacity, the more heat can be stored in volume.

The testing results are exclusively related to the sample under conditions as received.

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*p.p. S. Klöbe*

Dr Klöbe  
Head of the Testing Centre