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Test report 43/1/23

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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 λ	Alambeta method
		Temperature difference 10 K contact pressure of the plunger 10 cN/cm ² Number of test specimen: 5
2.	thermal resistance r	Alambeta method
		Temperature difference 10 K contact pressure of the plunger 10 cN/cm ² 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 ² Number of test specimen: 5

Samples:

Coding for test	Identification by customer
Sample 1	<u>Woven fabric</u> Article 1001 Material composition: 50 % WO RE, 40 % PAN, 10 % PES

Durch die DAkkS
 Deutsche Akkreditierungsstelle GmbH
 akkreditiertes Prüflaboratorium

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Thermal resistance r

r	Sample 1	
	right side	reverse side
\bar{x}	52.1	52.1
x_{max}	53.8	53.8
x_{min}	51.4	51.4

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
m^3	cubic meter

c_v	Sample 1	
	right side	reverse side
\bar{x}	115.4	126.2
x_{max}	121.5	141.9
x_{min}	108.2	118.5

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. Zbase

Dr Klobes
Head of the Testing Centre