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Test report 333/2/23

Ha

16/10/2023

page 1 of 3

Customer: Ms. Oda Nimmer
 Assignment from: 26/09/2023
 Received: 28/09/2023

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 10975 Material composition: Ground 100 % CO, Pile 100 % CO

Durch die DAkkS
 Deutsche Akkreditierungsstelle GmbH
 akkreditiertes Prüflaboratorium

In der Anlage zur Akkreditierungsurkunde sind alle akkreditierten Prüfverfahren aufgeführt. Auf Wunsch wird die Urkunde zugestellt.



Thermal resistance r

r	Sample 1	
	right side	reverse side
\bar{x}	26.4	25.7
x_{max}	26.8	26.8
x_{min}	26.1	25.1

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

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

mW	Milliwatt
s	seconds
K	Kelvin
m^3	cubic meter

c_v	Sample 1	
	right side	reverse side
\bar{x}	207.3	355.7
x_{max}	221.1	387.0
x_{min}	179.3	324.5

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. Klöbe

Dr Klöbe
Head of the Testing Centre