

Akkreditierte Prüfstelle – TITV e. V. • Zeulenrodaer Str. 42 • 07973 Greiz

ADO Goldkante GmbH & Co. KG
Zimmersmühlenweg 14-18
61440 Oberursel / Taunus

Textilforschungsinstitut
 Thüringen-Vogtland e. V.
 Akkreditierte Prüfstelle

Zeulenrodaer Str. 42
 07973 Greiz – Germany

Testreport 346/22

Ha

26/08/2022

page 1 of 3

Customer: Ms Oda Nimmer
 Assignment from: 18/08/2022
 Received: 18/08/2022

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

Durch die DAkkS
 Deutsche Akkreditierungsstelle GmbH
 akkreditiertes Prüflaboratorium

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


DAkkS
 Deutsche
 Akkreditierungsstelle
 D-PL-19649-01-00

Samples:

Coding for test	Identification by customer
Sample 1	woven fabric Article 1360 Order No.: 3670469 Piece No.: FS1008712

Sampling: The samples were taken by the customer.

Realisation of the test: The measurement samples were taken und tested in compliance with the above-mentioned regulations.

Testing period: 25/08/2022

Test results:1. Specific thermal conductivity λ

λ = Quantity of heat, which is passing a material with 1 m² surface and 1 m thickness per second, if there is a temperature difference of 1K between both sides.

λ in	mW	mW	Milliwatt
	-----	m	meter
	m K	K	Kelvin

dense side open side

\bar{x}	41.1	39.2
x_{\max}	44.6	40.2
x_{\min}	38.8	37.9

The lower the value of the specific thermal conductivity, the less heat is transported and dissipated, the better the thermal insulation.

2. Thermal resistance r

$r =$ Temperature difference between the upper side and the reverse side of a material with a surface area of 1 m² and a given thickness, if a heat flux of 1 Watt is passing through.

r in	mK m ²	mK	Millikelvin
	-----	m ²	square meter
	W	W	Watt

	dense side	open side
\bar{x}	18.4	18.9
x_{\max}	19.3	19.1
x_{\min}	17.2	18.4

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 in	mW s	mW	Milliwatt
	-----	10 ³	
	K m ³	s	seconds
		K	Kelvin
		m ³	cubic meter

	dense side	open side
\bar{x}	236.6	317.9
x_{\max}	258.7	348.4
x_{\min}	213.7	293.3

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.

Without written permission of the testing laboratory it is inhibited to copy this report partially.

i.V. S. Maase

Dr Klobes
Head of the Testing Centre