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

TEST REPOR	T 364/1/20	Pie	03/07/2020	page 1 of 3
Customer: Assignment from: Received:	Ms Oda Nimmer 17/06/2020 19/06/2020			
Assignment:	 Determination of specific thermal conductivity λ, temperature difference 10 K, contact pressure of the plunger 10 cN/cm², Alambeta method, n = 5, right side and reverse side Determination of the thermal resistance r, temperature difference 10 K, contact pressure of the plunger 10 cN/cm², Alambeta method, n = 5, right side and reverse side Determination of specific heat capacity c_v, temperature difference 10 K, contact pressure of the plunger 10 cN/cm², Alambeta method, n = 5, right side and reverse side Determination of specific heat capacity c_v, temperature difference 10 K, contact pressure of the plunger 10 cN/cm², Alambeta method, n = 5, right side and reverse side Determination of light transmittance according to DIN EN 410, n = 3 			
Samples:	1 piece of fabric artic	cle 135	9	
Sampling:	The samples were ta	aken by	the customer.	
Realisation of the test:	The samples were ta mentioned above.	aken ur	nd were tested by th	ne prescriptions

<u>Test results:</u> <u>1. Specific thermal conductivity λ </u>

 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.

	mW	mW	Milliwatt
λin		m	meter
	m K	K	Kelvin

right side	reverse side
56.1	57.3
57.2	59.4
53.9	56.0
	57.2

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 m² W	mK Millikelvin m ² square m W Watt	
		right side	reverse side
— X ₁ X _{max} X _{min}		12.3 12.6 12.1	12.2 12.2 11.8

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 10 ³ K m ³	mW Milliwatt s seconds K Kelvin m ³ cubic meter	
		right side	reverse side
— X ₁ X _{max} X _{min}		329.2 344.0 320.3	343.8 357.0 324.3

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

4. Light transmittanceright and reverse side

Light transmittance [%]

0.0

In the enclosure you get the measurement report. There you can find the single values.

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.

Dr. Klobes Head of the Testing Centre