

Test Report No. 083553.1 - Hu
(english version of test report no. 070598.1-Hu)

Orderer Soudal NV/SA
 Everdongenlaan 18-20
 B-2300 Turnhout
 BELGIUM

Order 08.03.2007

Content of Order Determination of thermal conductivity according to DIN 52612 of
 „Soudal Flexifoam“

The test report contains 2 pages.

The test material was used up.

The test report has to be published only unabridged. Publishing in abstracts must be allowed by the testing institute. The test results refer only on the tested material. In case of any disput the german version is decisive.

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DAP-PL-3448.00
Die Akkreditierung gilt für die in der
Urkunde aufgeführten Prüfverfahren.



Niedersachsen



Notifizierte Stelle
0764

1 Test Material

2 plates of PUR-foam

Name of the product: „Soudal Flexifoam“

Dimensions: 500 mm x 500 mm x 55 mm

Colour: yellowish white

Date of delivery: January 30, 2007 and March 6, 2007

2 Test

The thermal conductivity was determined according to DIN 52612-1:1979-09 with a guarded hot plate apparatus according to clause 7 of the standard from March 8, 2007 to March 12, 2007. The results are given in tables 1 and 2.

Table 1: Details of the specimens

		Specimen 1	Specimen 2
Width	mm	493	493
Length	mm	494	501
Thickness	mm	55,1	54,1
Mass	g	378,5	335,6
Area related mass	kg/m ²	1,55	1,36
Density	kg/m ³	28,2	25,1

Table 2: Results

Measurement no.	Mean temperature of the hot surfaces ϑ_{wm}	Mean temperature of the cold surfaces ϑ_{km}	Mean temperature of the specimens ϑ_m	Surface temperature difference ΔT	Thermal conductivity λ_g
—	°C	°C	°C	K	W/(m·K)
1	14,9	6,7	10,8	8,2	0,0347
2	25,0	16,6	20,8	8,4	0,0369
3	35,0	26,4	30,7	8,6	0,0392
Thermal conductivity at a mean temperature of 10 °C					0,0345

Hannover, October 22, 2008

Head of laboratory

By proxy



(ORR Dipl.-Phys. Hurling)

