

**Test Report No. 083553.1 - Hu**

(english version of test report no. 070598.1-Hu)

Orderer	Soudal NV/SA Everdengenlaan 18-20 B-2300 Turnhout BELGIUM
Order	08.03.2007

Content of Order	Determination of thermal conductivity according to DIN 52612 of „Soudal Flexifoam”
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The test report contains 2 pages.

The test material was used up.

The test results, conclusions and recommendations contained in this report were drawn by the testing institute, the test results referring to the test material, in case of dispute the original sample is decisive.

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0784



## 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 <sup>2</sup>	1,55	1,36
Density	kg/m <sup>3</sup>	28,2	25,1

Table 2: Results

Measurement no.	Mean temperature of the hot surfaces $\theta_{\text{hm}}$	Mean temperature of the cold surfaces $\theta_{\text{cm}}$	Mean temperature of the specimens $\theta_s$	Surface temperature difference $\Delta T$	Thermal conductivity $\lambda_s$
—	°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)

