

Test report

Test report acc. EN 12667 paragraph 9



Date 16.09.2004
Report no. Etal47_01
Test owner Lambda-Meßtechnik GmbH Dresden
Test tool Single-Specimen Conductivity Meter 'lambda-Meter EP-500' acc. to EN 1946-2 by Lambda-Meßtechnik GmbH Dresden
Test arrangement Sensor plates horizontal, hot plate at top normal inserted
Standards Thickness measurement acc. to EN 823
Therm. conductivity measurement acc. to ISO 8302 or EN 12 667
Tester Dipl.-Ing. Th. Stahn

Specimen designation	G47Etal	Spec. dimension	
Origin of specimen	German manufacturer	Area	25 dm ²
Date of manufac.	10.07.2004	Thickness	47,7 mm
Material name	PS 30 SE acc. to EN13163	Nominal thickness	47 mm
Material description	Expanded polystyrene, rigid cellular plastic material	Spec. mass	365 g
		Raw density	30,6 Kg/m ³

Spec. pre-conditioning Drying at 70°C, 24 hours

Change in mass during:

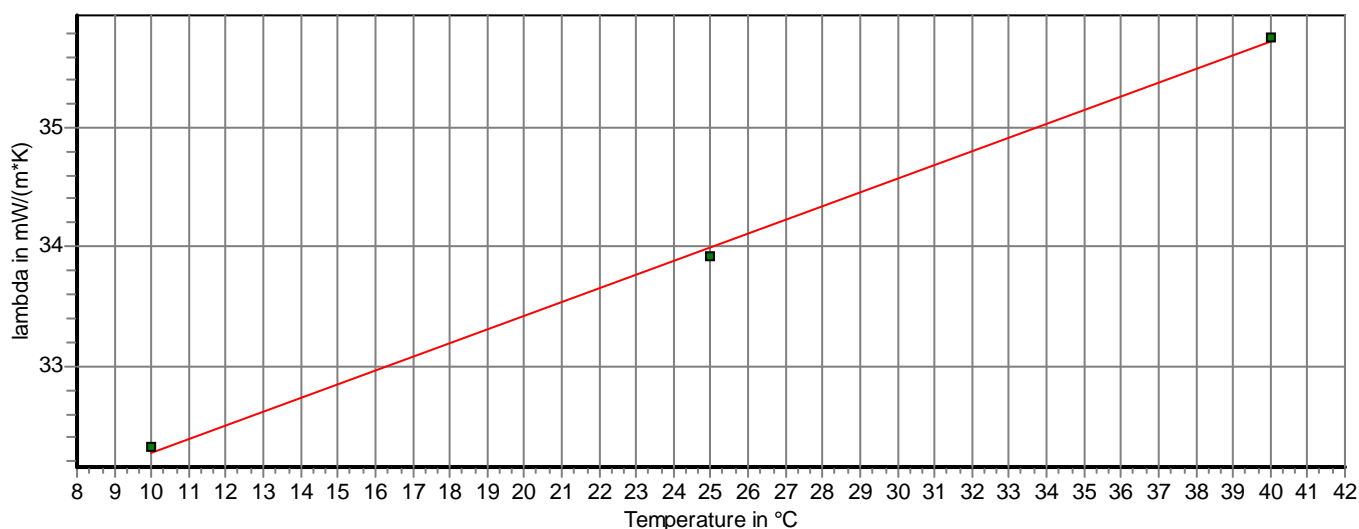
drying 0,4 %

test 0 %

Humidity before test 0 %

Pressure 250 Pa

Temp. diff. of specimen surface 15 K



	1. Measur.	2. Measur.	3. Measur.
Test no.	G47nr20_10	G47nr20_25	G47nr20_40
Meas. temp. in °C	10	25	40
lambda in mW/m*K	32,33	33,93	35,75
R en m²K/W	1,48	1,41	1,33

Polynomials

$y = f(T) = 0,11 * T + 31,15$

lambda-10 32,29 mW/(m*K)

R-10 1,48 m²K/W

TC 0,11 mW/(m*K²)