

Determination of the behavior at high temperatures according to EN14706

Test report No: M-003a/15

Applicant: Thermaflex International Holding B.V., 5145 NS Waalwijk, Niederlande

Material: ThermaSmart Sheet

Material identification: Sheet made of polyethylene foam (PEF) according to EN 14313:2009+A1:2013
(as given) Colour: black Production day: October 2014

Sampling: By FIW München at the plant in Waalwijk on 12.11.2014, Niederlande am 00.00.15

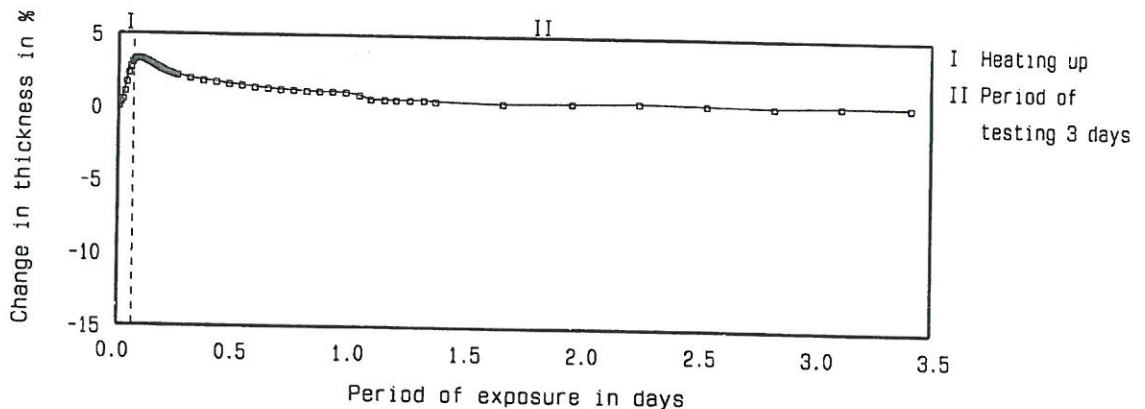
Goods Receipt: No. 68

Preparation of the material: Dimensions of the specimen: 100 mm x 100 mm Number: 4
Tested thickness: 30.1 mm (one-layered) Square pressure plate load: 0.25 kN/m²
Mass: 45.5 g
Density: 37.8 kg/m³

Test equipment: Horizontal test plate according to EN14706:2012, Area tested: 200 mm x 200 mm

Test conditions: according to annex D one-sided heating

Experimental data: Change in thickness versus time at 94 °C warm side temperature
Speed of heating up to test temperature 1 K/min



Properties of the material after measurement up to 94 °C warm side:

Self heating: ---
Mass: 44.9 g Decrease in mass: 1.3 %
Remarks: ---

Result: The change in thickness of specimen after a period of 3 days and a warm side of 94 °C is 0.5%.

Hint: For the hot-surface performance in practice, other longtime static and/or dynamic loading conditions will influence the dimensional stability of elastic, non rigid insulants accordingly.

Final remarks: The mean value of measured samples doesn't exceed the given mean value of relative change in thickness (reduction) of 7% according to EN 14313.

Gräfelfing, 06.02.2015

Technical supervisor:

R. Alberte
Dipl.-Ing. R. Alberte



Tester:

W. Moosburger
W. Moosburger