

Determination of the behavior at high temperatures according to EN14707

Test report No: M-011a/18

Applicant: L'ISOLANTE K-FLEX S.p.A., 20877 Roncello (MB), Italien

Material: K-Flex ST (s >25 mm)

Material identification: Tubes made of flexible elastomeric foam (FEF) according to EN 14304:2009+A1:2013
(as given) Production code: 02473153571P

Sampling: The material was collected by staff of FIW München on 05.12.2017 in the plant Uniejów/Poland

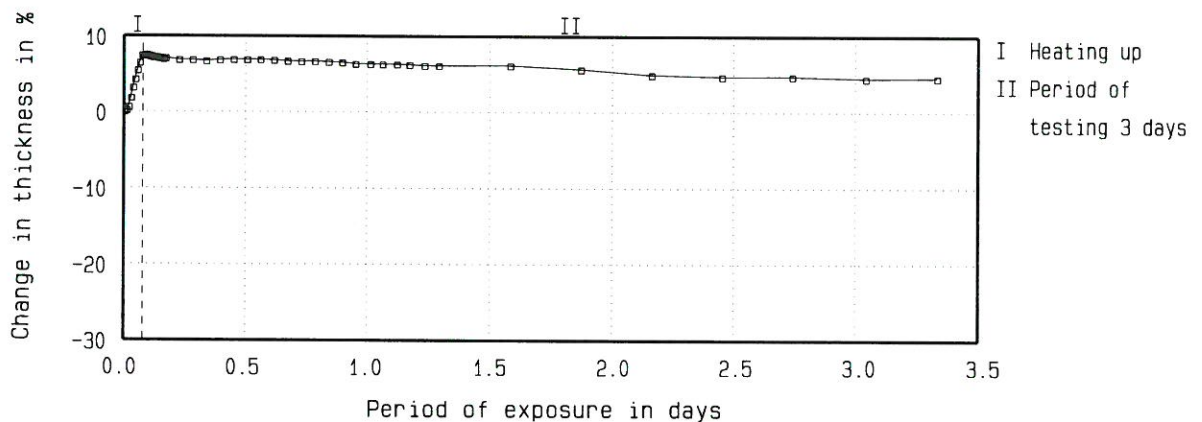
Goods Receipt: No. 3684

Preparation of the material: Tested thickness: 24.9 mm Testing load: 0.05 kN/m²
Mass: 73.3 g (related to the surface: Diameter of test pipe x length)
Density: 55.1 kg/m³

Test equipment: test pipe according to **EN14707:2012**, Diameter of test pipe: 28 mm, Length: 320 mm

Test conditions: according to EN 14707:2012, annex B, one-side heating

Experimental data: Change in thickness versus time at 110 °C warm side temperature
Speed of heating up to test temperature 1 K/min



Properties of the material after measurement up to 110 °C warm side:

Self heating: ---
Mass: 73.2 g Decrease in mass: 0.1 %
Remarks: Test period: 24.05.2018 to 27.05.2018

Result: Change in thickness after a period of 3 days and a warmside of 110 °C is 4.6%.

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 requirements of the given maximum service temperature of 110 °C is fulfilled, because there is no decrease of thickness greater than 7 % according to EN 14304:2009+A1:2013.
A declaration according to EN 14304:2009+A1:2013 of ST(+110) is possible.

Gräfelfing, 26.06.2018

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Tester:

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