

Determination of the behavior at high temperatures according to EN14707

Test report No: M-101a/17

Applicant: K-FLEX POLSKA Sp. z.o.o., 99 210 Uniejów, Polen

Material: K-Flex Solar HT; Code: 0367042271P

Material identification: Tube made of flexible elastomeric foam (FEF) according to EN 14304:2009+A1:2013 (as given)

Sampling: By staff of FIW München on 21.06.2017 in the plant Uniejow / Poland

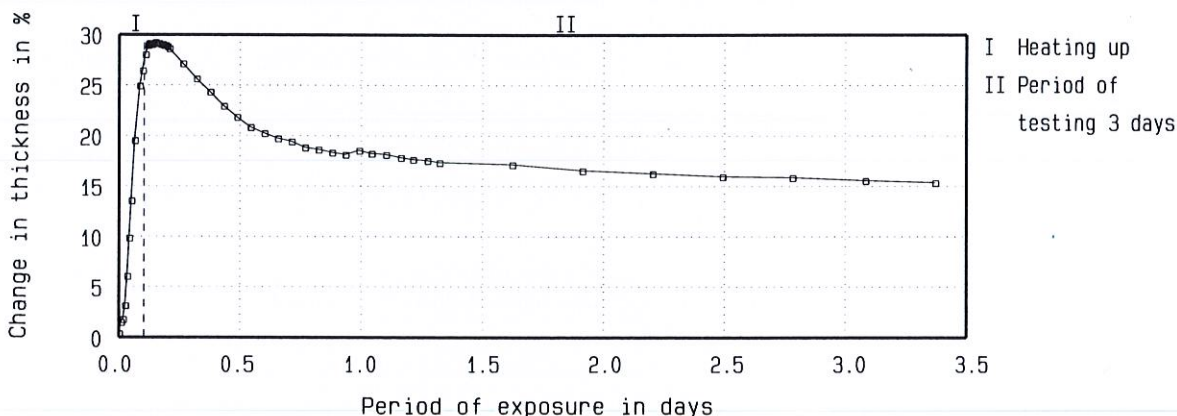
Goods Receipt: No. 3319

Preparation of the material: Tested thickness: 22.3 mm Testing load: 0.50 kN/m²
 Mass: 351.4 g (related to the surface: Diameter of test pipe x length)
 Density: 91.2 kg/m³

Test equipment: test pipe according to EN14707:2012, Diameter of test pipe: 35 mm, Length: 1020 mm

Test conditions: according to EN14707:2012, annex B, one-sided heating

Experimental data: Change in thickness versus time at 150 °C warm side temperature
 Speed of heating up to test temperature 1 K/min



Properties of the material after measurement up to 150 °C warm side:

Remarks: Self heating: ---
 Mass: 351.1 g Decrease in mass: 0.1 %
 Test period: 21.08.2017 to 24.08.2017

Result: Change in thickness after a period of 3 days and a warm side of 150 °C is 15.4%.

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 requirement of the given maximum service temperature of 150 °C is fulfilled, because there is no decrease of thickness greater than 7 % according to EN14304:2009+A1:2013.
 A declaration according to EN 14304:2009+A1:2013

Gräfelfing, 04.09.2017

Technical supervisor:

K. Wiesemeyer
 Dipl.-Ing. Karin Wiesemeyer



Tester:

S. Tana
 S. Tana

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