

Determination of the behavior at high temperatures according to EN14706

Test report No: M-112a/17

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

Material: K-Flex Solar HT; Code: 0066021571P

Material identification: Sheet 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

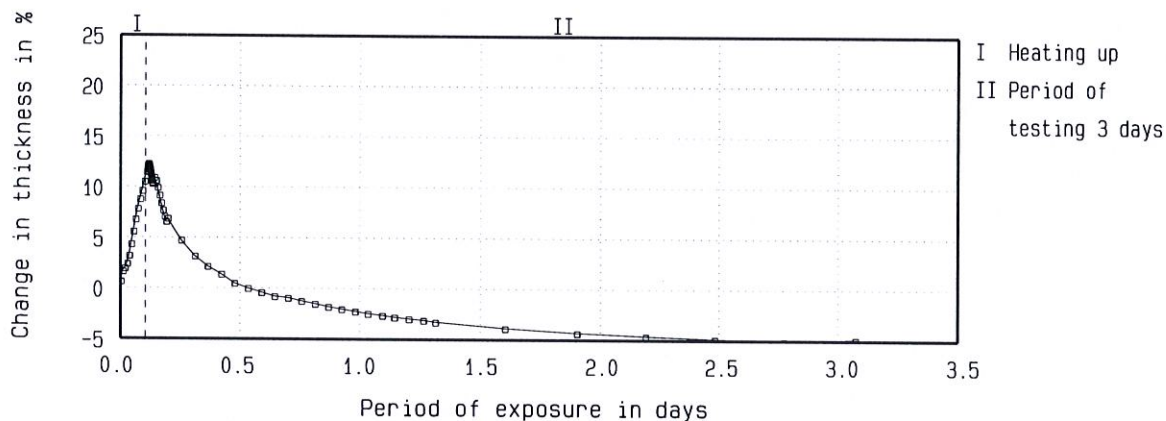
Goods Receipt: No. 3319

Preparation of the material: Dimensions of the specimen: 100 mm x 100 mm Number: 4
 Tested thickness: 31.7 mm (one-layered) Square pressure plate load: 0.05 kN/m²
 Mass: 0.1 g
 Density: 0.1 kg/m³

Test equipment: Horizontal test plate according to EN14706:2012, Area tested: 200 mm x 200 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: 122.9 g Decrease in mass: %-122800 %
 Test period: 18.08.2017 to 21.08.2017

Result: The mean of the change in thickness of four specimens after a period of 3 days and a warm side of 150 °C is -6.1%.

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 EN 14304:2009+A1:2013.
 A declaration according to EN 14304:2009+A1:2013 of ST(+)-150 is possible.

Gräfelfing, 25.01.2018

Technical supervisor:

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Tester:

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