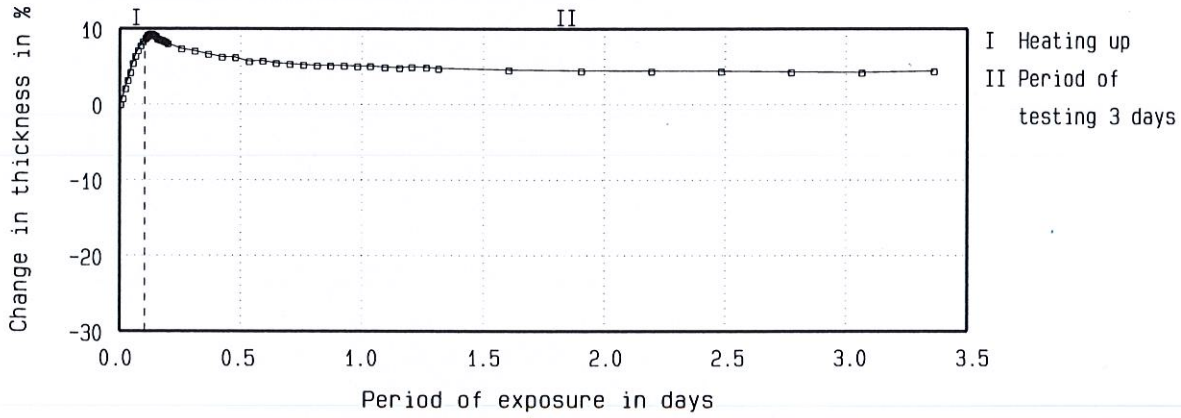
Determination of the behavior at high temperatures according to EN14707

Test report No: M-102a/17

Applicant:	**K-FLEX POLSKA Sp. z.o.o., 99 210 Uniejów, Polen**
Material:	**K-Flex Solar HT; Code: 0367032271P**
Material identification: (as given)	Tube made of flexible elastomeric foam (FEF) according to EN 14304:2009+A1:2013
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: 26.0 mm Mass: 99.2 g Density: 73.7 kg/m³
	Testing load: 0.50 kN/m² (related to the surface: Diameter of test pipe x length)
Test equipment:	test pipe according to **EN14707:2012** , Diameter of test pipe: 22 mm, Length: 320 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:

Self heating: ---
Mass: 99.0 g Decrease in mass: **0.2** %

Remarks: Test period: 06.09.2017 to 09.09.2017

Result: Change in thickness after a period of 3 days and a warm side of 150 °C is 4.4%.

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 of ST(+)150 is possible.

Gräfelfing, 28.09.2017

Technical supervisor:
Dipl.-Ing. Karin Wiesemeyer

Forschungsinstitut für Wärmeschutz e. V. München
FIW MÜNCHEN
1510
www.fiw-muenchen.de

Tester:
S. Tana

Forschungsinstitut für Wärmeschutz e.V. München
Lochhamer Schlag 4 · D-82166 Gräfelfing
Telefon +49 (0)89 8 58 00-0 · Telefax +49 (0)89 8 58 00-40
info@fiw-muenchen.de · www.fiw-muenchen.de