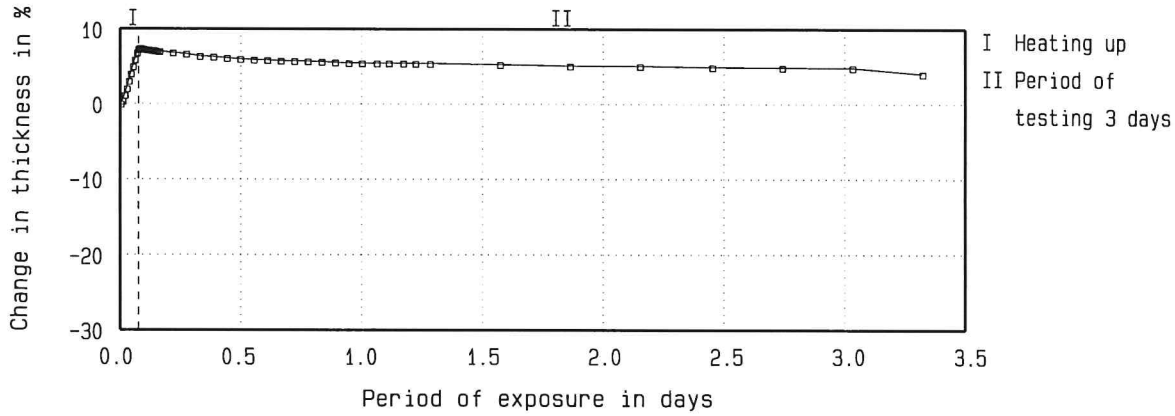
Determination of the behavior at high temperatures according to EN14707

Test report No: M-058a/18

Applicant:	**K-FLEX POLSKA Sp. z.o.o., 99 210 Uniejów, Polen**
Material:	**K-Flex ST**
Material identification: (as given)	Tube made of flexible elastomeric foam according to EN 14304:2009+A1:2013 26 - 50 mm thk; Production code: 02474121581P
Sampling:	The material was sampled by staff of FIW München on May 09, 2018 in the plant Uniejów/Poland.
Goods Receipt:	No. 4070
Preparation of the material:	Tested thickness: 28.7 mm Mass: 82.9 g Density: 53.6 kg/m³ Testing load: 0.05 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 EN 14707, 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: 82.7 g Decrease in mass: **0.2** %

Remarks: Test period: 03.09.2018 to 06.09.2018

Result: Change of thickness after a period of 3 days and a warmside temperature of 110 °C is +4.1 %.

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 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 °C is possible.

Gräfelfing, 20.09.2018

Technical supervisor:
Dipl.-Ing. R. Schreiner

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Tester:
S. Tana

The only valid document is the one in German and not this translation. Test results only refer to test objects.
The prior written consent of our Institute is required for any publication or reference concerning parts of this report.

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