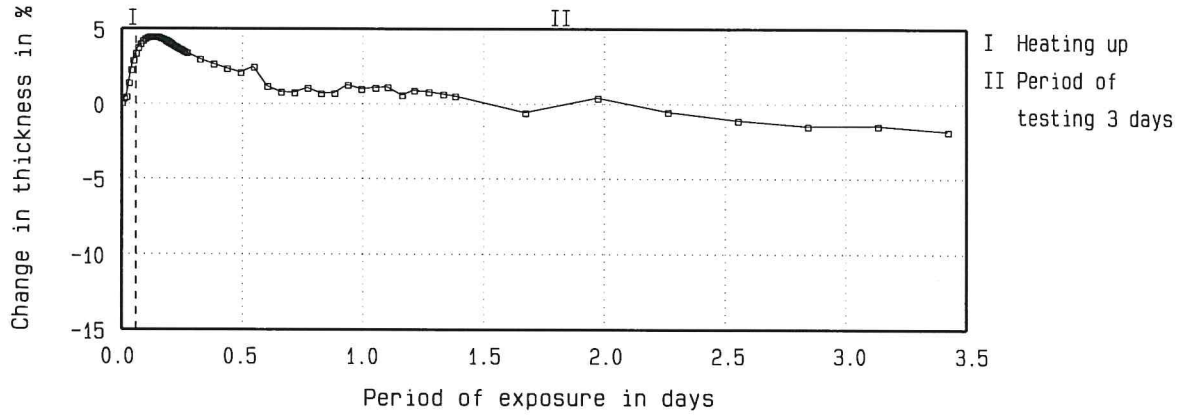
Determination of the behavior at high temperatures according to EN14706

Test report No: M-076a/18

Applicant:	**K-FLEX POLSKA Sp. z.o.o., 99 210 Uniejów, Polen**
Material:	**K-Flex ST**
Material identification: (as given)	Sheets made of flexible elastomeric foam according to EN 14304:2009+A1:2013; Color: black; 6 - 25 mm thk; Code: 01074021181P; FEF-EN 14304-ST(+)85--ST(-)-160-MU10000-WS01-CL500-pH8
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:	Dimensions of the specimen: 100 mm x 100 mm Tested thickness: 21.8 mm (one-layered) Mass: 38.6 g Density: 44.3 kg/m³ Number: 4 Square pressure plate load: 0.05 kN/m²
Test equipment:	Horizontal test plate according to **EN14706:2012** , Area tested: 200 mm x 200 mm
Test conditions:	According to EN 14706, annex D, one side heating

Experimental data: Change in thickness versus time at 85 °C warm side temperature
Speed of heating up to test temperature 1 K/min



Properties of the material after measurement up to 85 °C warm side:

Self heating: ---
Mass: 38.6 g Decrease in mass: **0.0** %

Remarks: Test period: 17.10.2018 to 21.10.21018

Result: Change of thickness after a period of 3 days and a warmside temperature of 85 °C is - 1.8 %.

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 85 °C is fulfilled, because there is no decrease of thickness greater than 7 % according to EN 14706:2012 and EN 14304:2009+A1:2013.

Gräfelfing, 22.10.2018

Technical supervisor:

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