Determination of water soluble chlorides according to EN 13468

Test report No: Q.3-083a/17

Applicant:	**K-FLEX POLSKA Sp. z.o.o., 99 210 Uniejów, Polen**
Material:	**K-Flex Solar HT; Code: 0066021571P / 010605027P**
Material identification: (as given)	Sheet 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
Test equipment:	Ion chromatography according to **EN ISO 10304-1**

Preparation of the material:

Samples are taken and prepared to EN 13468:2001 in accordance with sections 6 and 7
The test temperature was (100±1) °C and the leaching time 0.5 h.

The average apparent density of the test material is 86.1 kg/m³

Measured values:

Specimen No:	Initial weight m kg	Mass concentration of chloride ions in the eluate b_1 mg/l	Mass concentration of chloride ions in the blank sample b_2 mg/l	Percentage weight of chloride in the insulant w mg/kg
1	0.0075	0.954	0.000	50.9
2	0.0075	0.997	0.000	53.2
3	0.0075	1.114	0.000	59.4
4	0.0075	0.511	0.000	27.3
5	0.0075	0.538	0.000	28.7
6	0.0075	0.554	0.000	29.5

Uncertainty: ± 10%

Percentage weight of chloride in the insulant:

$$w = \frac{(b_1 - b_2)\cdot V}{m} \quad \text{in mg/kg}$$

V:= applied water volume for boiling out (0.4 l)

Result: The mean value of the chloride content of the tested specimens is 41.5 mg/kg. pH-value is 8.6.
Mean value of code: 0066021571P (32 mm) is 28.5 mg/kg; mean value of code: 010605027P (19 mm) 54.5 mg/kg.
Test day: 24.11.2017

Final remarks: ---

Gräfelfing, 29.01.2018

Department Specialist
Robert Hofmockel, M.Sc.

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

Tester
S. Tana