

## Water-soluble chlorides and pH value according to EN 13468:2001

Test report No.: Q3-18-1410-06

**Applicant:** K-FLEX POLSKA Sp. z.o.o. PL Bartłomiej Grobner, 99-210 UNIEJÓW, Poland  
**Name of product:** K-Flex ST  
**Declared density:** ---  
**Product identification:** Sheets made of flexible elastomeric foam according to EN 14304:2009+A1:2013  
(as given by applicant) Colour: 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.  
**Sample receipt:** WE18-4070 on May 29, 2018  
**Test equipment:** Ion chromatograph according to EN ISO 10304-1:2009  
**Sample preparation:** Samples were taken and prepared according to EN 13468:2001, sections 6 and 7.  
 The test temperature was  $(90 \pm 1)^\circ\text{C}$  and the leaching time was 1.0 h.

**Measured values:** Test protocol No.: Q3-18-1410:0003

Sample No. (Test date)	Declared thickness mm	Density kg/m <sup>3</sup>	Mass concentration of chloride ions		Mass fraction chlorides in the insulant w		pH value	
			eluate b1 mg/l	sample b2 mg/l	single values mg/kg	mean value mg/kg	single values	mean value
0003 (Jul 17, 2018)	19	45.0	7.899	0.000	421.3		7.3	
			7.480	0.000	398.9	393.6	7.4	7.4
			6.760	0.000	360.5		7.4	
Uncertainty: < 10 %			<b>Mean value of the specimens:</b>			<b>393.6</b>		<b>7.4</b>

Mass fraction of chlorides in the insulant:

$$w = \frac{(b_1 - b_2) \cdot V}{m}$$

Key:

w : Mass fraction of chlorides  
 b1 : Mass concentration of chlorid ions in the eluate  
 b2 : Mass concentration of chlorid ions in the blank sample  
 V : Applied water volume for boiling out (0.40 l)  
 m : Initial weight of sample (0.0075 kg)

**Evaluation:** The mean value of the chloride contents of the tested specimens is **393.6 mg/kg**.  
 The mean value of the pH values of the tested specimens is **7.4**.

**Remark:** The requirements according to the declaration of performance No. 0103010211-CPR-13, dated 07, 2014, are fulfilled, as the content of water-soluble chlorides in the material is less than 500 ppm and the pH value is  $7 \pm 0.5$ .

Gräfelfing, Dec 18, 2018

Department Specialist:

Tester:

*R. Schreiner*  
 Dipl.-Ing. R. Schreiner



*S. Tana*  
 S. Tana

Results relate only to the items tested.

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