



Probo Fortuinweg 17 9101 PE DOKKUM Netherlands

**Your notice of** 12-12-2022

Your reference

**Date** 13-01-2023

# Analysis Report 22.06676.01

Required tests:

EN 12149 - test C (1997) Determination of formaldehyde in wallcoverings in roll form \_

(WKI method)

EN 12149 - test B (1997) Determination of vinylchloride in wallcovering in roll form

(GC-MS)

EN 12149 - test A (1997) Determination of heavy metals in wallcoverings in roll

Sample id Information given by the client Date of receipt
T2224867 Sign again material 12-12-2022

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Kristina De Temmerman Order responsible

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Reference: T2224867 - Sign again material

### Determination of formaldehyde in wallcoverings in roll form (WKI method)

Date of ending the test 11-01-2023

Standard used EN 12149 - test C (1997)
Product standard EN 15102 (2007) +A1 (2011)

Deviation from the

standard

Principle Absorption of the released formaldehyde in water of textile wall

covering.

Conditions: 2 \* 24 hours at 40°C in a closed bottle. Measurements

take place on the 2nd 24 hours absorption liquid.

Reaction with acetyl acetone

Determination Spectrophotometric at 412 nm

Results

Limit value: 120 mg/kg Reporting limit: 0.50 mg/kg

mg/kg	
< 0.50	





Reference: T2224867 - Sign again material

### Determination of vinylchloride in wallcovering in roll form (GC-MS)

Date of ending the test 22-12-2022

Standard used EN 12149 - test B (1997) Product standard EN 15102 (2007) +A1 (2011)

Deviation from the standard

Extraction method Dimethylacetamide is added to the sample in a closed bottle.

The closed bottle is heated during 2 hours at 60°C. Air from

the headspace is injected directly on GC.

Analysis method Gas chromatography, external standard

Results

Detection limit 0.2 mg/kg

D = === 14 (== == /1==)	< 0.20
Result (mg/kg)	< 0.20



Reference: T2224867 - Sign again material

## Determination of heavy metals in wallcoverings in roll

Date of ending the test 10-01-2023

Standard used EN 12149 - test A (1997) Product standard EN 15102 (2007) +A1 (2011)

Deviation from the standard

Extraction method With a solution of 0.07 mol/L HCl

Determination ICP-OES

Analytical correction according to EN 233 (wallpaper cylindrical-specifications)

#### Results

Metals	Reporting limit mg/kg	Concentration mg/kg	Corrected concentration (mg/kg)	Maximum migration * mg/kg
Sb (antimony)	2	19.43	7.8	
As (arsenic)	2	< 2.00	< 2.0	25
Ba (barium)	2	67.32	47	500
Cd (cadmium)	2	< 2.00	< 2.0	25
Cr (chromium)	2	< 2.00	< 2.0	60
Pb (lead)	2	< 2.00	< 2.0	90
Hg (mercury)	1	< 1.00	< 1.0	20
Se (selenium)	2	< 2.00	< 2.0	165

<sup>\*</sup> Limiting maximum migration according to EN 15102 (2007)+A1 (2011)