

TEST PROTOCOL

Number: 100-059931
dated: 2017-08-01

Name and address of the customer: SÜS DUVAR KAĞITÇILIK SAN. Ve TIC.A.Ş.
Mevlanakapi Merkezefendi Mah. Tekke Sok. No: 6
34780 Zeytinburnu/Istanbul
Turkey

Product name: wallpaper Piya Kids Duvar Kağıtları

Test subject and method:

Determination of formaldehyde - formaldehyde emissions: method No. 100607-05
- stated by spectrophotometer
Determination of certain elements migration: method No. 100608-01
- AAS (EN 71-3 +A1:2014)
Determination of Hg migration: method No. 100608-02
- AMA (EN 71-3 +A1:2014)
Determination of vinylchloride: method No. 100663
- GC-MS

Test legal basis: EN 15102:2007 +A1:2011 - Decorative wallcoverings - Roll and panel form products.

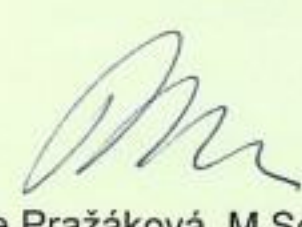
Date of sample receipt for testing: 2017-06-22

Tests were carried out: from: 2017-06-22 to: 2017-08-01

Test was carried out by the laboratory: Analytic Chemistry Laboratory

Name and function of the person entitled to sign this Test Protocol:




Libuše Pražáková, M.Sc.
Technical Head of Laboratory



Protocol No.: 100-059931
dated: 2017-08-01

Page: 2
Pages: 3

Description and identification of the sample: wallpaper Piya Kids Duvar Kağıtları
Name and address of the customer: SÜS DUVAR KAĞITÇILIK SAN. Ve TIC.A.Ş.
Mevlanakapi Merkezefendi Mah. Tekke Sok. No: 6
34780 Zeytinburnu/Istanbul
Turkey

Devices used: spectrophotometer Specord 210, AAS PU 9400, AAS UNICAM 939, mercurymer
AMA 254, gas chromatograph GC-MS FOCUS

Test results:

Determination of formaldehyde release by the flask method according to the standard EN 12149:1997:
Formaldehyde release was determined by hanging samples tested above distilled water in a shut bottle at the temperature of 40°C for the period of twice 24 hours. Formaldehyde absorbed by distilled water during second 24 hours period was determined with spectrophotometer against a blank solution, using acetyl acetone as an agent.

Sample No.	Sample name	Units	Formaldehyde	Max. value acc. to ČSN EN 15102
323	wallpaper Piya Kids Duvar Kağıtları	mg/kg	0.11	120
Extended uncertainty in % rel.			6	-

Determination of certain element migration according to the standard EN 12149:1997:
By measuring an extract of hydrochloric acid with AAS method using PU 9400 following values of given migration elements were measured. Mercury was determined using mercury-meter AMA 254.

Results are given in mg of element/kg of material:

Sample No.	Sample name	Sb	As	Ba	Cd	Cr	Pb	Hg	Se
323	wallpaper Piya Kids Duvar Kağıtları	< 5	< 1	< 5	< 0.2	< 5	< 1	< 0.01	< 5
Maximum migration acc. to ČSN EN 15102		No upper limit	25	500	25	60	90	20	165

Determination of vinylchloride to the standard EN 12149:1997:

Sample No.	Sample name	Units	Vinylchloride	Max. value acc. to ČSN EN 15102
323	wallpaper Piya Kids Duvar Kağıtları	mg/kg	< 0.1	< 0.2
Extended uncertainty in % rel.			-	-

Conclusion:

Tested wallpaper Piya Kids Duvar Kağıtları **comply** with requirements of the standard EN 15102:2007 +A1:2011 Decorative wallcoverings - Roll and panel form products, regarding formaldehyde release - point 4.2 and egarding dangerous substances release - heavy metals and certain elements - point 4.3.1 and regarding onomeric vinylchloride (VCM) - point 4.3.2.

Protocol No.: 100-059931
dated: 2017-08-01

Page: 3
Pages: 3

The uncertainty mentioned is the extended uncertainty calculated by using the extension coefficient equalling 2 and so it corresponds to the significance level by approx. 95%.

Tests carried out by: Bc. J. Opekar, S. Kučerová, M. Pfeiferová
Protocol completed by: M. Pfeiferová

Note:

This Test Protocol can be copied as the whole only, in case of using its part, a written approval is necessary of the testing laboratory. Test results are valid for the sample tested only and this Test Protocol does not replace any other documents.

- END OF TEST PROTOCOL -