



Report 439/2022

Test Report

Applicant

Reference

AG FOIL EUROPE, s.r.o.
Družstevná 549/7
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Slovak Republic

Application

Authorization to use the mark „**Tested for harmful substances according STANDARD 100 by OEKO-TEX®**“ **Appendix 4, product class I.**

Test Material

„Thermal Transfer Ribbon (AGT85) in colour black for printing labels“

Material used in testing was anonymized for laboratory purposes. A detailed sample list is contained in the report.

Issuing and Signatures

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1 Order

1.1 Chronology

<i>Date</i>	<i>Received</i>	<i>Order</i>
2022-02-23	2022-03-10	Authorization to use the mark „Tested for harmful substances according STANDARD 100 by OEKO-TEX® Appendix 4 product class I .

1.2 Application for certification

An application with the appropriate OEKO-TEX® application forms was submitted for the article group:

Thermal Transfer Ribbon (AGT85) in colour black for printing labels.

The application is for 1st prolongation of certificate with licence number **VUTCH-40**. A signed declaration of conformity was submitted.



2 Technical evaluation and tests performed

2.1 Certified base material

For the production of the certified article group the following certified materials are used:

none

2.2 Samples

Samples	Identification
S1	Thermal Transfer Ribbon (AGT85) 043 mm x 030 m OUT, colour: black for printing labels, Lot Nr.: 23-22-0302-033M
S2	Thermal Transfer Ribbon (AGT85) 043 mm x 030 m OUT, colour: black for printing labels, Lot Nr.: 18-21-0219-032E

2.3 Tests

As required in the STANDARD 100 by OEKO-TEX® the test program is decided by the institute based on the article group, the requested product class and on the technical information given in the application form.

Required tests are carried out according to STANDARD 100 by OEKO-TEX® and the testing procedure laid down in OEKO-TEX® Standard 200.

Sample S1		
	limit value	determined value
Formaldehyde, free and partially releasable [mg.kg⁻¹]		
Law	n.d.	n.d.
Extractable (heavy) metals [mg.kg⁻¹]		
Antimony (Sb) [mg.kg ⁻¹]	30,0	2,02
Arsenic (As) [mg.kg ⁻¹]	0,2	< 0,10
Lead (Pb) [mg.kg ⁻¹]	0,2	< 0,10
Cadmium (Cd) [mg.kg ⁻¹]	0,1	< 0,02
Chromium (Cr) [mg.kg ⁻¹]	1,0	< 0,20
Cobalt (Co) [mg.kg ⁻¹]	1,0	< 0,50
Copper (Cu) [mg.kg ⁻¹]	25,0	< 0,30
Nickel (Ni) [mg.kg ⁻¹]	1,0	< 0,50
Mercury (Hg) [mg.kg ⁻¹]	0,02	< 0,01



Barium (Ba) [mg.kg ⁻¹]	1000	< 40
Selenium (Se) [mg.kg ⁻¹]	100	< 25
Colorants [mg.kg⁻¹]		
Cleavable carcinogenic arylamines [mg.kg ⁻¹]	20	n.d.
Cleavable aniline [mg.kg ⁻¹]	20	n.d.
Chlorinated benzenes and toluenes [mg.kg⁻¹]		
Sum	1,0	< 0,5
Polycyclic aromatic hydrocarbons (PAHs) [mg.kg⁻¹]		
Benzo[a]pyrene	0,5	< 0,5
Benzo[e]pyrene	0,5	< 0,5
Benzo[a]anthracene	0,5	< 0,5
Chrysene	0,5	< 0,5
Benzo[b]fluoranthene	0,5	< 0,5
Benzo[j]fluoranthene	0,5	< 0,5
Benzo[k]fluoranthene	0,5	< 0,5
Dibenzo[a,h]anthracene	0,5	< 0,5
Sum 24 PAHs (Acenaphthene, Acenaphthylene, Anthracene, Benzo[a]anthracene, Benzo[a]pyrene, Benzo[b]fluoranthene, Benzo[e]pyrene, Benzo[ghi]perylene, Benzo[j]fluoranthene, Benzo[k]fluoranthene, Chrysene, Cyclopenta[c,d]pyrene, Dibenzo[a,h]anthracene, Dibenzo[a,e]pyrene, Dibenzo[a,h]pyrene, Dibenzo[a,i]pyrene, Dibenzo[a,l]pyrene, Fluoranthene, Fluorene, Indeno[1,2,3-cd]pyrene, 1-Methylpyrene, Naphthalene, Phenanthrene, Pyrene)	5,0	< 1,0
Determination of odours		
General	no abnormal odour	no abnormal odour

Sample S2		
	limit value	determined value
pH value	4,0-7,5	4,8
Extractable (heavy) metals [mg.kg⁻¹]		
Antimony (Sb) [mg.kg ⁻¹]	30,0	< 1,00
Arsenic (As) [mg.kg ⁻¹]	0,2	< 0,10
Lead (Pb) [mg.kg ⁻¹]	0,2	< 0,10
Cadmium (Cd) [mg.kg ⁻¹]	0,1	< 0,02
Chromium (Cr) [mg.kg ⁻¹]	1,0	< 0,20
Cobalt (Co) [mg.kg ⁻¹]	1,0	< 0,50
Copper (Cu) [mg.kg ⁻¹]	25,0	< 0,30



Nickel (Ni) [mg.kg ⁻¹]	1,0	< 0,50
Mercury (Hg) [mg.kg ⁻¹]	0,02	< 0,01
Barium (Ba) [mg.kg ⁻¹]	1000	< 40
Selenium (Se) [mg.kg ⁻¹]	100	< 25
Heavy metals total content [mg.kg⁻¹]		
Arsenic (As)	100	< 2,5
Cadmium (Cd)	40,0	< 1,0
Mercury (Hg)	0,5	< 0,25
Lead (Pb)	90,0	< 2,5
Chlorinated phenols [mg.kg⁻¹]		
Pentachlorophenol [mg.kg ⁻¹]	0,05	< 0,05
Tetrachlorophenols [mg.kg ⁻¹]	0,05	< 0,05
Trichlorophenols [mg.kg ⁻¹]	0,2	< 0,10
Dichlorophenols [mg.kg ⁻¹]	0,5	< 0,05
Monochlorophenols [mg.kg ⁻¹]	0,5	< 0,10
Other chemical residues		
OPP [mg.kg ⁻¹]	10	< 1,00
Phenol [mg.kg ⁻¹]	20	< 2,5
Quinoline [mg.kg ⁻¹]	50	< 10
Colorants [mg.kg⁻¹]		
Cleavable carcinogenic arylamines [mg.kg ⁻¹]	20	n.d.
Cleavable aniline [mg.kg ⁻¹]	20	n.d.
Determination of odours		
General	no abnormal odour	no abnormal odour

No further tests have been necessary.

3 Conclusion

The following test results do not fulfil the limit values:

None

The test results and the documents provided show that the requested article group can be certified according to **STANDARD 100 by OEKO-TEX® product class I, Appendix 4**. This test report does not replace the certificate.

According to OEKO-TEX® regulations the authorisation will be valid till **2023-04-30**.

The use of the label is only permitted based on a valid certificate and according to the regulations in the STANDARD 100 by OEKO-TEX®. Particularly the use of the label is only permitted during the certification period for articles in the certified article group compliant with the limiting values. The label has to bear the licence number and



control name of the institute given on the certificate. Furthermore the use of the Oeko-Tex® mark is only allowed after full settlement of invoices for testing fees and certification costs.

4 Remarks

Sample Material

Results of performed tests only refer to the sample material provided.

Without explicit written other agreement testing is destructive and the sample material is transferred to the property of VUTCH-CHEMITEK, which is entitled to freely decide on storage and disposal.

Quality management and accreditations

All tests and services are performed under a quality management system according to EN ISO 17025.

VUTCH-CHEMITEK is accredited by several organisations for various tests offered. It is also a Notified Body for several directives with the registration number 1296 (see <http://ec.europa.eu/enterprise/newapproach/nando/>).

Details and other accreditations are given on request and can be found on www.vutch.sk.

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