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Konjevici bb
Prelijina
Cacak - 32212
SERBIEN

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Our ref.
Ho/NAB/hli

Date
4. February 2019

Report No. 19.0.61872

(= 15.HRS.76447 ZV3)

Applicant: VAPEKS D.O.O.
Konjevici bb
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Cacak - 32212
SERBIEN

Date of order: 12/26/2018

Contact person: Aleksey Krivonosov
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Email: verica.smajovic@vapkes.rs

Receipt of order: 1/3/2019

Receipt of material: 1/3/2019

Receipt of further information: 1/18/2019 Payment in advance

Details of order: Renewal of the certificate for textile products with the label
"OEKO-TEX® Confidence In Textiles – STANDARD 100 – Tested for harmful
substances Appendix 4"

**Master no.
(First certification):** 15.HRS.76447

The report comprises 10 pages.

Our terms of business shall apply:
www.hohenstein.de/pdf/agb_e.pdf

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VAT REG No.
DE262079343

Hohenstein Textile Testing Institute GmbH & Co. KG · County Court Stuttgart HRA 723464
Personally liable associate: Hohenstein Verwaltungs GmbH · County Court Stuttgart HRB 752904
CEO: Dr. Stefan Droste · Company Headquarter is Bönnigheim

For technical reasons, the Institute will allocate a new test number to each order for the renewal of a certificate. The renewed certificate will always be issued under the master number indicated in the first certification. The master number in brackets will be suffixed to the current test number of this expertise and will serve to identify the relevant product. The additional designation "ZV" with a number indicates the number of times the certificate has been renewed.

The application for renewal of the certificate was submitted using the relevant forms issued for this purpose.

The applicant enclosed the declaration of conformity.

The originals of all necessary documents have been signed with a legally binding signature.

The orderer confirmed that no biological active product is used.

Further the orderer confirmed that no flame retardant product is used.

Information is provided regarding following changes:

· Excluding "maximum" regarding testing height

A list of dyestuffs and finishing auxiliaries is appended to the documents.

The application was made for the following article group:

Ether-based polyurethane foams (standard, visco-elastic and HR-foam), white and coloured, testing height 200 mm.

The four product categories specified in STANDARD 100 by OEKO-TEX® are described as follows:

| Product-class | Definition |
|---------------|---|
| I | Products for babies Products for babies in context with this standard are all articles, basic materials and accessories, which are provided for the production of articles for babies and children up to 36 months. |
| II | Products with direct contact to skin Skin contact articles are those which are worn with a large part of their surface in direct contact with the skin (e.g. blouses, shirts, underwear etc.). |
| III | Products without direct contact to skin No skin contact articles are those which are worn with only a little part of their surface in direct contact with the skin (e.g. stuffings, linings etc.). |
| IV | Decoration material Decoration material in context with this standard are all articles including initial products and accessories which are used for decoration such as table clothes, wall coverings, furnishing fabrics and curtains, upholstery fabrics and floor coverings. |

According to the information provided by the orderer and to the specified area of use, product class I is applicable.

The test material named below was submitted for testing.

| Serial No. | Description of article or material | Additional information | | | | | Material composition |
|------------|------------------------------------|-------------------------|-------------|------------|--------|--------------------------|----------------------|
| | | Quality | Article No. | Colour No. | Design | Colour | |
| 1 | foam | visco-elastic | LR 4015 | | | white | PUR |
| 2 | foam | standard; disperse dyed | EL 3550 | | | light yellow (yellow) | PUR |
| 3 | foam | standard; reactive dyed | SPG 1936 | | | yellow (milliken yellow) | PUR |
| 4 | foam | HR; disperse dyed | HR 3538 | | | rose (red) | PUR |
| 5 | foam | standard; disperse dyed | ST 2536 | | | light blue (blue) | PUR |
| 6 | foam | standard; disperse dyed | ST 3040 | | | light grey (black) | PUR |

If only parts of certain articles were included in the tests, only these parts are named in the list of materials.

TEST RESULT/S

Tests were carried out in accordance with STANDARD 100 by OEKO-TEX® Appendix 4.

The test results are given in the charts below.

Note: n.d. = not detectable (below quantification limit)

| sample | pH | | | |
|---|------------------------------|-------------------------------|--------------------------------|-------------------------------|
| 2 foam light yellow (yellow) | 5,8 | | | |
| 4 foam rose (red) | 5,7 | | | |
| limit values acc. to STANDARD 100 by OEKO-TEX® | product class I 4,0 – 7,5 | product class II 4,0 – 7,5 | product class III 4,0 – 9,0 | product class IV 4,0 – 9,0 |

| sample | formaldehyde in mg/kg (ppm) | | | | | | | | |
|---|---|-------------------|------------------|-------------------|------------------|------|----|-----|-----|
| 1 foam white | n.d. | | | | | | | | |
| 5 foam light blue (blue) | n.d. | | | | | | | | |
| limit values acc. to STANDARD 100 by OEKO-TEX® | <table border="1"> <thead> <tr> <th>product class I</th> <th>product class II</th> <th>product class III</th> <th>product class IV</th> </tr> </thead> <tbody> <tr> <td>n.d.</td> <td>75</td> <td>300</td> <td>300</td> </tr> </tbody> </table> | product class I | product class II | product class III | product class IV | n.d. | 75 | 300 | 300 |
| product class I | product class II | product class III | product class IV | | | | | | |
| n.d. | 75 | 300 | 300 | | | | | | |

Note:

According to Japanese Law 112 "n.d." corresponds with an absorption unit < 0,05 respectively < 16 ppm.

| sample | extractable heavy metals in mg/kg (ppm) | | | | | | | | |
|--|--|---------------|------------------|---------------|----------------|--------------|-------------------|------------------|---------------|
| | Sb antimony | As arsenic | Pb lead | Cd cadmium | Cr chromium | Co cobalt | Cu copper | Ni nickel | Hg mercury |
| 4 foam rose (red) | < 4 | < 0,1 | < 0,1 | < 0,05 | < 0,1 | < 0,1 | < 4 | < 0,1 | < 0,01 |
| limit values acc. to STANDARD 100 by OEKO-TEX® Appendix 4 | | | | | | | | | |
| product class I | 30 | 0,2 | 0,2 | 0,1 | 1,0 | 1,0 | 25,0 ² | 1,0 ³ | 0,02 |
| product class II | 30 | 1,0 | 1,0 ¹ | 0,1 | 2,0 | 4,0 | 50,0 ² | 4,0 ⁴ | 0,02 |
| product class III | 30 | 1,0 | 1,0 ¹ | 0,1 | 2,0 | 4,0 | 50,0 ² | 4,0 ⁴ | 0,02 |
| product class IV | -- | 1,0 | 1,0 ¹ | 0,1 | 2,0 | 4,0 | 50,0 ² | 4,0 ⁴ | 0,02 |

Notes:

A Test after mechanical ageing (EN 12472)

¹ No requirement for accessories made from glass

² No requirement for accessories and yarns made from inorganic materials, respecting the requirements regarding biological active products.

³ For metallic accessories and metallized surfaces: 0,5 mg/kg

⁴ For metallic accessories and metallized surfaces: 1,0 mg/kg

| sample | phenol and chlorinated phenols in mg/kg (ppm) | | |
|--|--|----------------------------|-------------------|
| 3 foam yellow (milliken yellow) | n.d. | | |
| limit values acc. to STANDARD 100 by OEKO-TEX® Appendix 4 | product class I | product class II-IV | |
| | Pentachlorophenol (PCP) | 0,05 | 0,50 |
| | Tetrachlorophenols (TeCP) | 0,05 ¹ | 0,50 ¹ |
| | Trichlorophenols (TrCP) | 0,20 ¹ | 2,00 ¹ |
| | Dichlorophenols (DCP) | 0,50 ¹ | 3,00 ¹ |
| | Monochlorophenols (MCP) | 0,50 ¹ | 3,00 ¹ |
| | o-Phenylphenol (OPP) | 10 | 25 |
| | Phenol | 20 | 50 |

Notes:

¹ sum of isomers

| | | free and cleavable cancerogenic arylamines, free and cleavable aniline in mg/kg (ppm) |
|--|----------------------------------|--|
| 2 | foam light yellow (yellow) | n.d. |
| 3 | foam yellow (milliken yellow) | n.d. |
| 4 | foam rose (red) | n.d. |
| 5 | foam light blue (blue) | n.d. |
| 6 | foam light grey (black) | n.d. |
| limit value acc. to STANDARD 100 by OEKO-TEX® Appendix 4 product class I - IV | | each < 20 aniline 100 |

| sample | | dyestuffs and pigments in mg/kg (ppm) |
|---|-------------------------------|--|
| 2 | foam light yellow (yellow) | n.d. |
| 4 | foam rose (red) | n.d. |
| 5 | foam light blue (blue) | n.d. |
| 6 | foam light grey (black) | n.d. |
| limit value acc. to STANDARD 100 by OEKO-TEX® product class I - IV | | < 50 |

| sample | | quinoline in mg/kg (ppm) |
|--|-------------------------------|-----------------------------|
| 2 | foam light yellow (yellow) | n.d. |
| 4 | foam rose (red) | n.d. |
| 5 | foam light blue (blue) | n.d. |
| 6 | foam light grey (black) | n.d. |
| limit values acc. to STANDARD 100 by OEKO-TEX® | | under observation |

| sample | | chlorinated benzenes and toluenes in mg/kg (ppm) |
|---|---------------------------|---|
| 5 | foam light blue (blue) | n.d. |
| limit value acc. to STANDARD 100 by OEKO-TEX® | | product class I – IV sum 1,0 |

| sample | | colour fastness | | | | | | |
|--|----------------------------------|-----------------|-----------|-----------------|--|------|--|--------------------------------|
| | | to water | | to perspiration | | | | to dry rubbing ¹ |
| | | | | alkaline | | acid | | |
| 3 | foam yellow (milliken yellow) | PES 4-5 | CO 4-5 | | | | | |
| limit values acc. to STANDARD 100 by OEKO-TEX® | | | | | | | | |
| product class I | | 3-4 | | 3-4 | | 3-4 | | 4 (3 ²) |
| product class II - IV | | 3 | | 3-4 | | 3-4 | | 4 (3 ²) |

Notes:

¹ No requirements for "wash-out" articles.

² For pigment, vat or sulphurous colorants a minimum grade of colour fastness to rubbing of 3 is acceptable.

Evaluation of colour fastness (in accordance with the fastness scale prescribed under ISO 105):

5 = best result, 1 = worst result

CO = cotton, WO = wool, CV = viscose, SE = silk, PES = polyester, PA = polyamide,

PAN = polyacrylonitrile (acrylic), CA = acetate

| sample | colour fastness to saliva and perspiration |
|---|--|
| 3 foam yellow (milliken yellow) | fast |
| 4 foam rose (red) | fast |
| 5 foam light blue (blue) | fast |
| limit value acc. to STANDARD 100 by OEKO-TEX® | product class I fast |

| sample | plasticizers (phthalates) in % |
|--|-----------------------------------|
| 1 foam white | n.d. |
| limit values acc. to STANDARD 100 by OEKO-TEX® Appendix 4 product class I - III product class IV | sum 0,1 sum without DINP 0,1 |

| sample | Bisphenol A in % |
|---|---------------------|
| 1 foam white | n.d. |
| limit values acc. to STANDARD 100 by OEKO-TEX® Appendix 4 product class I - IV | 0,1 |

| sample | Tris(2-chloroethyl)phosphate (TCEP) in % |
|---|---|
| 1 foam white | n.d. |
| limit values acc. to STANDARD 100 by OEKO-TEX® Appendix 4 product class I - IV | 0,1 |

| sample | emission of volatiles in mg/m ³ | | | | | | | |
|--|---|---------|-----------------------|------------------------------|-----------|---------------|--------------------------|---------------------|
| | toluene | styrene | vinyl- cyclohexene | 4-phenyl - cyclohexene | butadiene | vinylchloride | aromatic hydrocarbons | organic volatile |
| 1 foam white | < 0,002 | < 0,002 | < 0,002 | < 0,002 | -- | -- | < 0,002 | 0,03 |
| limit values acc. to STANDARD 100 by OEKO-TEX® product class I - IV | 0,1 | 0,005 | 0,002 | 0,03 | 0,002 | 0,002 | 0,3 | 0,5 |

| sample | per- and polyfluorinated compounds (PFC) in mg/kg (ppm) | | |
|---|--|---|---------------------------------------|
| 3 foam yellow (milliken yellow) | n.d. | | |
| limit values acc. to STANDARD 100 by OEKO-TEX® Appendix 4 | product class I 0,05 ¹ / 0,50 ¹ | product class II-III 0,10 ¹ | product class IV 0,50 ¹ |

Notes:

¹Compilation of the individual substances are listed in STANDARD 100 by OEKO-TEX® Appendix 4

| sample | per- and polyfluorinated compounds (PFC) in µg/m ² | |
|---|--|--|
| 3 foam yellow (milliken yellow) | n.d. | n.d. |
| limit values acc. to STANDARD 100 by OEKO-TEX® Appendix 4 product class I-IV | PFOA <1,0 | sum (PFOS, PFOSA, PFOSF, N-Me-FOSA, N-Et-FOSA, N-Me-FOSE, N-Et-FOSE) <1,0 |

| sample | polycyclic aromatic hydrocarbons (PAH) in mg/kg (ppm) | | |
|---|--|---------------------|------|
| 6 foam light grey (black) | n.d. | | |
| limit values acc. to STANDARD 100 by OEKO-TEX® Appendix 4 | product class I | product class II-IV | |
| | Benzo[a]pyrene | 0,5 | 1,0 |
| | Benzo[e]pyrene | 0,5 | 1,0 |
| | Benzo[a]anthracene | 0,5 | 1,0 |
| | Chrysene | 0,5 | 1,0 |
| | Benzo[b]fluoranthene | 0,5 | 1,0 |
| | Benzo[j]fluoranthene | 0,5 | 1,0 |
| | Benzo[k]fluoranthene | 0,5 | 1,0 |
| | Dibenzo[a,h]anthracene | 0,5 | 1,0 |
| | and | | |
| | sum of all 24 PAH: | 5,0 | 10,0 |

| sample | Nonylphenol, Octylphenol and specific Alkylphenoethoxylates in mg/kg (ppm) | |
|---|---|---|
| | NP / OP / HpP / PeP | NP / OP / HpP / PeP / NP (EO) / OP (EO) |
| 5 foam light blue (blue) | n.d. | n.d. |
| limit values acc. to STANDARD 100 by OEKO-TEX® Appendix 4 product class I - IV | sum <10,0 | sum <100,0 |

| sample | Solvent residues in % | | | |
|---|-------------------------------------|--------------------------------------|---------------------------------|-----------|
| | NMP (1-Methyl- 2-pyrrolidone) | DMAc (N,N-Dimethyl- acetamide) | DMF (Dimethyl- formamide) | Formamide |
| 1 foam white | n.d. | n.d. | n.d. | n.d. |
| limit values acc. to STANDARD 100 by OEKO-TEX® Appendix 4 product class I - IV | 0,1 | 0,1 | 0,1 | 0,02 |

| sample | odour test according to SNV 195 651 (modified) |
|---|---|
| 2 foam light yellow (yellow) | 2 |
| limit value acc. to STANDARD 100 by OEKO-TEX® | product class I - IV 3 Grade scale: 1 odourless, 2 weak odour, 3 medium odour, 4 strong odour, 5 very strong odour |

| sample | odour test |
|---|---|
| 1 - 6 | n.d. |
| limit value acc. to STANDARD 100 by OEKO-TEX® | product class I-IV no abnormal odour |

CONCLUSION

The material for which the certification was applied fulfils the specific requirements for product class I of STANDARD 100 by OEKO-TEX® Appendix 4.

The certification of the following article group is approved:

Ether-based polyurethane foams (standard, visco-elastic and HR-foam), white and coloured, testing height 200 mm.

Each holder of certificate has signed for the quality of his articles on his own responsibility. This is in accordance with the given declaration of conformity. He is committed to ensure this by suitable and sufficient spot checks. This commitment includes the quality of bought materials, too. In the case of delegating parts of this quality assurance to others the certifying body must be fully acquainted (see point 4 "Conformity declaration").

Oeko-Tex® is authorized to carry out spot checks in order to inspect the certified goods. The certificate holder will receive a separate test report with the results of these inspections.

If the spot checks reveal a deviation from the limit values, additional tests will have to be carried out. The relevant costs will be charged to the certificate holder.

The actual version of STANDARD 100 by OEKO-TEX® is edition 01/2018. It can be downloaded directly from the Oeko-Tex® Homepage (<http://www.oeko-tex.com>).

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