

CERTIFICATE

The company

is granted authorisation according to STANDARD 100 by OEKO-TEX® to use the STANDARD 100 by OEKO-TEX® mark, based on our test report **20.O.10356**

OEKO-TEX®
CONFIDENCE IN TEXTILES
STANDARD 100
20.HCN.10356 HOHENSTEIN HTTI



Tested for harmful substances
www.oeko-tex.com/standard100



for the following articles:

PET acoustic panel, white and black.

The results of the inspection made according to STANDARD 100 by OEKO-TEX®, Appendix 4, **product class IV** have shown that the above mentioned goods meet the human-ecological requirements of the STANDARD 100 by OEKO-TEX® presently established in Appendix 4 for decoration material.

The certified articles fulfil requirements of Annex XVII of REACH (incl. the use of azo colourants, nickel release, etc.), the American requirement regarding total content of lead in children's articles (CPSIA; with the exception of accessories made from glass) and of the Chinese standard GB 18401:2010 (labelling requirements were not verified).

The holder of the certificate, who has issued a conformity declaration according to ISO 17050-1, is under an obligation to use the STANDARD 100 by OEKO-TEX® mark only in conjunction with products that conform with the sample initially tested. The conformity is verified by audits.

The certificate 20.HCN.10356 is valid until 30.04.2021

Boennigheim, 27.04.2020

Ivonne Schramm

Dipl.-Ing. (FH) Ivonne Schramm
Head of Certification Body OEKO-TEX®



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Business process

Contact person

Our ref.

Date

Christina Schemminger

DZ/CSC2/LHE2/KH02/
hli

21. April 2020

Report No. 20.0.10356

(= 20.HCN.10356 ZN)

Applicant:

Date of order: 3/17/2020

Contact person:

Receipt of order: 3/27/2020

Receipt of material: 3/27/2020

Receipt of further information: 3/20/2020 Payment in advance

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

The report comprises 8 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

The application for certification was submitted using the relevant forms issued for this purpose.

The applicant enclosed the declaration of conformity and agreed to the terms of use.

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.

The application was made for the following article group:

PET acoustic panel, white and black.

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 IV 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	acoustic panel					white	PET
2	acoustic panel					black	PET

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® Annex 4.

The test results are given in the charts below.

Note: n.d. = not detectable (below quantification limit); u.o. = under observation

sample	formaldehyde in mg/kg (ppm)			
2 acoustic panel black	n.d.			
limit values acc. to STANDARD 100 by OEKO-TEX®	product class I n.d.	product class II < 75	product class III < 150	product class IV < 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
2 acoustic panel black	34	< 0,1	< 0,1	< 0,05	< 0,1	< 0,1
limit values acc. to STANDARD 100 by OEKO-TEX® Annex 4						
product class I	< 30	< 0,2	< 0,2	< 0,1	< 1,0	< 1,0
product class II	< 30	< 1,0	< 1,0 ¹	< 0,1	< 2,0	< 4,0
product class III	< 30	< 1,0	< 1,0 ¹	< 0,1	< 2,0	< 4,0
product class IV	--	< 1,0	< 1,0 ¹	< 0,1	< 2,0	< 4,0

sample	extractable (heavy) metals in mg/kg (ppm)				
	Cu copper	Ni nickel	Hg mercury	Ba barium	Se selenium
2 acoustic panel black	< 4	< 0,1	< 0,01	< 4	< 4
limit values acc. to STANDARD 100 by OEKO-TEX® Annex 4					
product class I	< 25,0 ²	< 1,0 ³	< 0,02	< 1000	< 100
product class II	< 50,0 ²	< 4,0 ⁴	< 0,02	< 1000	< 100
product class III	< 50,0 ²	< 4,0 ⁴	< 0,02	< 1000	< 100
product class IV	< 50,0 ²	< 4,0 ⁴	< 0,02	< 1000	< 100

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)		
composite sample	n.d.		
1 acoustic panel white			
2 acoustic panel black			
limit values acc. to STANDARD 100 by OEKO-TEX® Annex 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

sample	free and cleavable cancerogenic arylamines, free and cleavable aniline in mg/kg (ppm)		
2 acoustic panel black	n.d.		
limit value acc. to STANDARD 100 by OEKO-TEX® Annex 4		product class I	product class II-IV
	each	< 20 ¹	< 20 ¹
	aniline	< 20	< 50

Note:

¹ Compilation of the individual substances are listed in STANDARD 100 by OEKO-TEX® Annex 5

sample	free and cleavable cancerogenic arylamines, in mg/kg (ppm)
2 acoustic panel black	n.d.
limit value acc. to STANDARD 100 by OEKO-TEX® Annex 4 product class I-IV	under observation ¹

Note:

¹ Compilation of the individual substances are listed in STANDARD 100 by OEKO-TEX® Annex 5

sample	dyestuffs and pigments in mg/kg (ppm)
2 acoustic panel black	n.d.
limit value acc. to STANDARD 100 by OEKO-TEX® Annex 4 product class I - IV	< 50 ¹

Note:

¹ Compilation of the individual substances are listed in STANDARD 100 by OEKO-TEX® Annex 5

sample	dyestuffs and pigments in mg/kg (ppm)
2 acoustic panel black	n.d.
limit value acc. to STANDARD 100 by OEKO-TEX® Annex 4 product class I - IV	under observation ¹

Note:

¹ Compilation of the individual substances are listed in STANDARD 100 by OEKO-TEX® Annex 5

sample	quinoline in mg/kg (ppm)
2 acoustic panel black	n.d.
limit values acc. to STANDARD 100 by OEKO-TEX® product class I - IV	< 50

sample	chlorinated benzenes and toluenes in mg/kg (ppm)
2 acoustic panel black	n.d.
limit value acc. to STANDARD 100 by OEKO-TEX® product class I - IV	sum < 1,0

sample	colour fastness						to dry rubbing ¹
	to water		to perspiration				
			alkaline		acid		
2 acoustic panel black	PES 4-5	CO 4-5	PES 4-5	CO 4-5	PES 4-5	CO 4-5	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	organo tin compounds in mg/kg (ppm)	
composite sample	n.d.	
1 acoustic panel white		
2 acoustic panel black		
limit values acc. to STANDARD 100 by OEKO-TEX® Annex 4	product class I < 0,5 ¹ / < 1,0 ¹	product class II - IV < 1,0 ¹ / < 2,0 ¹

Note:

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

sample	polycyclic aromatic hydrocarbons (PAH) in mg/kg (ppm)		
composite sample	n.d.		
1 acoustic panel white			
2 acoustic panel black			
limit values acc. to STANDARD 100 by OEKO-TEX® Annex 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	Solvent residues in %			
	NMP (1-Methyl- 2-pyrrolidone)	DMAc (N,N-Dimethyl- acetamide)	DMF (Dimethyl- formamide)	Formamide
1 acoustic panel white	n.d.	n.d.	n.d.	n.d.
limit values acc. to STANDARD 100 by OEKO-TEX® product class I - IV	< 0,05 / < 0,10 ¹	< 0,05 / < 0,10 ¹	< 0,05 / < 0,10 ¹	< 0,02

Notes:

¹ For materials made of acrylic (PAN), elastane (EL)/polyurethane, polyimide and aramides as well as coated (PU-, PVC-, PVC-plastisol-, PVDC-, PVC-copolymer) textiles.

sample	surfactant, wetting agent residues in mg/kg (ppm)		
	NP / OP / HpP / PeP	NP / OP / HpP / PeP / NP (EO) / OP (EO)	4-tert-butylphenol
2 acoustic panel black	n.d.	n.d.	n.d.
limit values acc. to STANDARD 100 by OEKO-TEX® Annex 4 product class I - IV	sum < 10,0	sum < 100,0	u.o.

sample	Benzene in mg/kg (ppm)
1 acoustic panel white	n.d.
limit value acc. to STANDARD 100 by OEKO-TEX® product class I - IV	< 5,0

sample	Chemical residues in mg/kg (ppm)
1 acoustic panel white	n.d.
limit values acc. to STANDARD 100 by OEKO-TEX® Annex 4 product class I - IV	under observation ¹

¹Compilation of the individual substances are listed in STANDARD 100 by OEKO-TEX® Annex 5

sample	odour test
1 - 2	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 IV of STANDARD 100 by OEKO-TEX® Annex 4.

The certification of the following article group is approved:

PET acoustic panel, white and black.

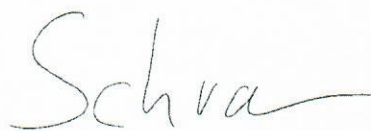
Each holder of certificate has signed for the quality of his articles on his own responsibility. This is in accordance with the given declaration of conformity. He is committed to ensure this by suitable and sufficient spot checks. This commitment includes the quality of bought materials, too. In the 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 current version of STANDARD 100 by OEKO-TEX® is edition 02/2020. It can be downloaded directly from the Oeko-Tex® Homepage (<http://www.oeko-tex.com>).

Division Manager Oeko-Tex®



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Team Leader Department Oeko-Tex®



M.Sc. Valerie Maier

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The accreditation applies for the methods listed in the annex to the certificate (accreditations see www.hohenstein.de/de/about_hohenstein/accreditation/accreditation.html) – marked ^A in the report.