

23. December 2014

CDS/ut/sm

## Test Report No. 14.0.52298

(=13.HBD.32816 ZV1)

**Applicant** : Keya Knit Composite Ltd.  
Jarun, Konabari  
Gazipur - 1346  
BANGLADESH

**Date of order** : 19/10/2014

**Reference no. or contact person** : Mr A. K. Azad  
Tel: +880 2949 779  
Email: azad@keya-bd.com

**Receipt of order** : 03/11/2014

**Receipt of material** : 03/11/2014  
04/12/2014 Retest sample (1NU1)

**Receipt of further information** : 12/11/2014 Updated supplier certificate (14.HBD.44271);  
supplier certificate (12.HBD.10801) was cancelled  
18/11/2014 Payment in advance  
15/12/2014 Payment in advance for retests  
22/12/2014 Confirmation from printing supplier (KLMO 049352)

**Details of order** : Renewal of the certificate for textile products with the label  
"Confidence in textiles – Tested for harmful substances according  
to Oeko-Tex® Standard 100"

**Test no. of first certification (master no.)** : 13.HBD.32816

*This test report comprises 6 pages*

The test results relate only to the test samples submitted. This test report must only be reproduced in full and not in extract form. Use of the test report in advertising or the publication of free interpretations of the test results is only allowed with the express permission of Forschungsinstitut Hohenstein. Remaining test material will usually be destroyed after 3 months. Our terms of business shall apply, [www.hohenstein.de/pdf/agb\\_e.pdf](http://www.hohenstein.de/pdf/agb_e.pdf)

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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:

Accessory drawstring was included.

Valid Copies of Oeko-Tex® certificates (08.HBD.59321, 11.HBD.86621, 05.B.2990, 09.HBD.68398, 12.HBD.11198, KLMO 049352, 12.HBD.10801, 14.HBD.44271) for the products in use were enclosed with the application.

The application was made for the following article group:

Knitted ready made garments (T-shirt, polo shirt, tank top, vest, sweatshirt with hood and pyjama, made of 100 % cotton, cotton/elastane, cotton/polyester, white and dyed as well as cotton/viscose in grey melange, pigment and rubber print on cotton and cotton/polyester, including accessories (sewing thread, woven and printed label, polyester button, elastic, drawstring, zipper, interlining); produced by using materials certified according to Oeko-Tex® Standard 100.

The four product categories specified in Oeko-Tex® Standard 100 are described as follows:

Product-class	Definition
I	<b>Products for babies</b> 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 with the exception of leather clothing.
II	<b>Products with direct contact to skin</b> 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	<b>Products without direct contact to skin</b> 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.).

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Product-class	Definition
IV	<p><b>Decoration material</b>            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.</p>

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	interlining	non-woven with adhesive				white	n.i.

Serial No.	Description of article or material	Additional information					Material composition
		Quality	Article No.	Colour No.	Design	Colour	
1 NU1	interlining	non-woven with adhesive				white	n.i.

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

After being informed about the results by advanced notice the orderer sent improved samples from the same finishing quality (NU) resp. improved samples from a comparable finishing quality (E).

## Test Result/s

Tests were carried out in accordance with Oeko-Tex® Standard 100.

The test results are given in the charts below.

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

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sample	formaldehyde in mg/kg (ppm)			
1 interlining white	n.d.			
<b>limit values acc. to Oeko-Tex® Standard 100</b>	product class I n.d.	product class II 75	product class III 300	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	Cu copper	Ni nickel	Hg mercury
1 interlining white	< 4	< 0,05	< 0,05	< 0,05	< 0,1	< 0,1	< 4	<b>0,95</b>	< 0,01
<b>limit values acc. to Oeko-Tex® Standard 100</b>									
product class I	30	0,2	0,2	0,1	1,0	1,0	25,0 <sup>3</sup>	1,0 <sup>4</sup>	0,02
product class II	30	1,0	1,0 <sup>1</sup>	0,1	2,0	4,0	50,0 <sup>3</sup>	4,0 <sup>5</sup>	0,02
product class III	30	1,0	1,0 <sup>1</sup>	0,1	2,0	4,0	50,0 <sup>3</sup>	4,0 <sup>5</sup>	0,02
product class IV	--	1,0	1,0 <sup>1</sup>	0,1	2,0 <sup>2</sup>	4,0	50,0 <sup>3</sup>	4,0 <sup>5</sup>	0,02

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
1NU1 interlining white	12,70	< 0,05	< 0,05	< 0,05	< 0,1	< 0,1	< 4	< 0,1	< 0,01
<b>limit values acc. to Oeko-Tex® Standard 100</b>									
product class I	30	0,2	0,2	0,1	1,0	1,0	25,0 <sup>3</sup>	1,0 <sup>4</sup>	0,02
product class II	30	1,0	1,0 <sup>1</sup>	0,1	2,0	4,0	50,0 <sup>3</sup>	4,0 <sup>5</sup>	0,02
product class III	30	1,0	1,0 <sup>1</sup>	0,1	2,0	4,0	50,0 <sup>3</sup>	4,0 <sup>5</sup>	0,02
product class IV	--	1,0	1,0 <sup>1</sup>	0,1	2,0 <sup>2</sup>	4,0	50,0 <sup>3</sup>	4,0 <sup>5</sup>	0,02

Notes:

A Test after mechanical ageing (EN 12472)

<sup>1</sup> No requirement for accessories made from glass

<sup>2</sup> For leather articles 10 mg/kg

<sup>3</sup> No requirement for accessories made from inorganic materials

<sup>4</sup> For metallic accessories and metallized surfaces: 0,5 mg/kg

<sup>5</sup> For metallic accessories and metallized surfaces: 1,0 mg/kg

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sample	phenols in mg/kg (ppm)			
	pentachlorophenol (PCP)	tetrachlorophenols (TeCP)	trichlorophenols (TrCP)	o-phenylphenol (OPP)
1 interlining white	n.d.	n.d.	n.d.	n.d.
<b>limit values acc. to Oeko-Tex® Standard 100</b>				
product class I	0,05	sum isomers 0,05	sum isomers 0,2	50
product class II - IV	0,50	sum isomers 0,50	sum isomers 2,0	100

sample	polycyclic aromatic hydrocarbons (PAH) in mg/kg (ppm)		
	1 interlining white	sum 0,25 Phenanthrene 0,25	
<b>limit values acc. to Oeko-Tex® Standard 100</b>		<b>product class I</b>	<b>product class II-IV</b>
	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
	<u>and</u>		
	sum of all 24 PAH:	5,0	10,0

## Conclusion

The material for which the certification was applied fulfils the specific requirements for product class I of Oeko-Tex® Standard 100.

It is representative of the article group for which an application for certification was made.

The certification of the following article group is approved:

Knitted ready made garments (T-shirt, polo shirt, tank top, vest, sweatshirt with hood and pyjama, made of 100 % cotton, cotton/elastane, cotton/polyester, white and dyed as well as cotton/viscose in grey melange, pigment and rubber print on cotton and cotton/polyester, including accessories (sewing thread, woven and printed label, polyester button, elastic, drawstring, zipper, interlining); produced by using materials certified according to Oeko-Tex® Standard 100.

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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 applicant is responsible for checking the validity of the certificates issued to his suppliers.

If the term of validity of these certificates expires within the term of validity of the applicant's certificate, he is obliged to request updated or extended certificates from his suppliers.

Copies of updated certificates from suppliers should be presented as proof and for documentation purposes under the test number of the applicant's certificate.

The actual version of Oeko-Tex® Standard 100 is edition 01/2014. It can be downloaded directly from the Oeko-Tex® Homepage (<http://www.oeko-tex.com>).

Managing Director



Prof. Dr. Stefan Mecheels



Deputy Head of Test Centre  
Oeko-Tex® Standard 100



BEng Janine Aubermann

(This document carries an electronic signature. The electronic signatures in this report are equal to a personal signature and therefore legally binding)