

14. July 2015

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## Test Report No. 15.0.63877

(=08.HBD.59321 ZV7)

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

**Date of order** : 27/05/2015

**Reference no. or contact person** : Mr Dewan Md. Ashraful Islam  
Tel: +880 2949 779  
Email: ashraf-dyeing@keya-bd.com

**Receipt of order** : 05/06/2015

**Receipt of material** :  
05/06/2015  
16/06/2015 Samples 14,15

**Receipt of further information** : 01/07/2015 Payment in advance

**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.)** : 08.HBD.59321

Der Prüfbericht umfasst 10 Seiten. / The test report comprises 10 pages.

Die Akkreditierung gilt für die in der Urkunde aufgeführten Prüfverfahren - im Bericht mit \* gekennzeichnet.  
The accreditation applies for the test methods listed in the certificate - marked \* in the report.



Gründungsmitglied der Internationalen Gemeinschaft für Forschung und Prüfung auf dem Gebiet Textilkologie (OEKO-TEX® Standard 100)

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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personally liable associate: Hohenstein Verwaltungs GmbH HRB 752904 •  
company headquarter is Boennigheim • Managing Director: Dr. Stefan Droste

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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.

The applicant documents that there are no changes to the previous certified article group.

A valid Copy of the Oeko-Tex® certificate 12.HBD.01678 for the products in use was enclosed with the application.

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

Exact dyeing recipes for the samples are provided by the orderer.

The application was made for the following article group:

White, reactive and disperse dyed knitted fabrics made of 100 % cotton, cotton/elastane and cotton/polyester as well as knitted fabrics made of cotton/viscose in colour light grey melange and grey melange; 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	knitted fabric	bleached				white	CO
2	knitted fabric	reactive dyed				yellow	CO
3	knitted fabric	reactive dyed				orange	CO
4	knitted fabric	reactive dyed				red	CO
5	knitted fabric	reactive dyed				green	CO
6	knitted fabric	reactive dyed				royal blue	CO
7	knitted fabric	reactive dyed				navy	CO
8	knitted fabric	reactive dyed				black	CO
9	knitted fabric	reactive dyed				red	CO/EL
10	knitted fabric	reactive dyed				green	CO/EL
11	knitted fabric	reactive dyed				navy	CO/EL
12	knitted fabric	reactive dyed				black	CO/EL
13	knitted fabric	bleached				white	CO/PES

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Serial No.	Description of article or material	Additional information				Material composition	
		Quality	Article No.	Colour No.	Design		Colour
14	knitted fabric	reactive and disperse dyed				orange	CO/PES
15	knitted fabric	reactive and disperse dyed				red	CO/PES
16	knitted fabric	reactive and disperse dyed				green	CO/PES
17	knitted fabric	reactive and disperse dyed				royal blue	CO/PES
18	knitted fabric	reactive and disperse dyed				navy	CO/PES
19	knitted fabric	reactive and disperse dyed				black	CO/PES
20	knitted fabric	mélange				light grey mélange	CO/CV
21	knitted fabric	mélange				grey mélange	CO/CV

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 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	pH			
2 knitted fabric yellow	6,4			
11 knitted fabric navy	6,6			
18 knitted fabric navy	6,7			
19 knitted fabric black	6,0			
20 knitted fabric light grey mélange	7,0			
<b>limit values acc. to Oeko-Tex® Standard 100</b>	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)			
9 knitted fabric red	n.d.			
10 knitted fabric green	n.d.			
14 knitted fabric orange	n.d.			
17 knitted fabric royal blue	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
12 knitted fabric black	< 4	< 0,05	< 0,05	< 0,05	< 0,1	< 0,1	< 4	< 0,1	< 0,01
15 knitted fabric red	< 4	< 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

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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

sample	pesticides sum in mg/kg (ppm)			
1 knitted fabric white	n.d.			
<b>limit values acc. to Oeko-Tex® Standard 100</b>	product class I sum 0,5	product class II sum 1,0	product class III sum 1,0	product class IV sum 1,0

sample	forbidden AZO-colorants cleavable arylamines of MAK-list III (category 1 or 2) in mg/kg (ppm)
composite sample 4 knitted fabric red 5 knitted fabric green	n.d.
composite sample 16 knitted fabric green 17 knitted fabric royal blue 18 knitted fabric navy	n.d.
19 knitted fabric black	n.d.
<b>limit value acc. to Oeko-Tex® Standard 100</b>	<b>product class I – IV n.d.</b>

sample	allergenic colorants in mg/kg (ppm)
composite sample 16 knitted fabric green 17 knitted fabric royal blue 18 knitted fabric navy	n.d.
19 knitted fabric black	n.d.
<b>limit value acc. to Oeko-Tex® Standard 100</b>	<b>product class I - IV n.d.</b>

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sample	chlorinated benzenes and toluenes in mg/kg (ppm)
19 knitted fabric black	n.d.
<b>limit value acc. to Oeko-Tex® Standard 100</b>	<b>product class I – IV sum 1,0</b>

sample	colour fastness						
	to water		to perspiration				to dry rubbing <sup>1</sup>
			alkaline		acid		
2 knitted fabric yellow	CO 4-5	WO 4-5					
4 knitted fabric red							4
5 knitted fabric green	CO 4-5	WO 4-5					
7 knitted fabric navy							4-5
11 knitted fabric navy	CO 4-5	WO 4					
12 knitted fabric black							4-5
14 knitted fabric orange							4-5
15 knitted fabric red	CO 4	PES 4					
17 knitted fabric royal blue							4-5
19 knitted fabric black	CO 4-5	PES 4-5					
<b>limit values acc. to Oeko-Tex® Standard 100 product class I - IV</b>	<b>3</b>		<b>3-4</b>		<b>3-4</b>		<b>4 (3<sup>2</sup>)</b>

Notes:

<sup>1</sup> No requirements for "wash-out" articles.

<sup>2</sup> 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

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sample	colour fastness to saliva and perspiration	
2	knitted fabric yellow	fast
3	knitted fabric orange	fast
4	knitted fabric red	fast
5	knitted fabric green	fast
6	knitted fabric royal blue	fast
7	knitted fabric navy	fast
8	knitted fabric black	fast
9	knitted fabric red	fast
10	knitted fabric green	fast
11	knitted fabric navy	fast
12	knitted fabric black	fast
14	knitted fabric orange	fast
15	knitted fabric red	fast
16	knitted fabric green	fast
17	knitted fabric royal blue	fast
18	knitted fabric navy	fast
19	knitted fabric black	fast
<b>limit value acc. to Oeko-Tex® Standard 100</b>		<b>product class I fast</b>

sample	Nonylphenol, Octylphenol and specific Alkylphenoethoxylates in mg/kg (ppm)		
	NP / OP	NP / OP / NP (EO) <sub>1-20</sub> / OP (EO) <sub>1-20</sub>	
10	knitted fabric green	n.d.	n.d.
21	knitted fabric grey mélange	n.d.	n.d.
<b>limit values acc. to Oeko-Tex® Standard 100 product class I - IV</b>		<b>sum 10,0</b>	<b>sum 100,0</b>



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sample	odour test
1 - 21	n.d.
<b>limit value acc. to Oeko-Tex® Standard 100</b>	<b>product class I–IV no abnormal odour</b>

## 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:

White, reactive and disperse dyed knitted fabrics made of 100 % cotton, cotton/elastane and cotton/polyester as well as knitted fabrics made of cotton/viscose in colour light grey melange and grey melange, produced by using materials certified according to Oeko-Tex® Standard 100.

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.

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The actual version of Oeko-Tex® Standard 100 is edition 01/2015. It can be downloaded directly from the Oeko-Tex® Homepage (<http://www.oeko-tex.com>).

Managing Director



Dr. Stefan Droste



Head of Department Oeko-Tex®



Dipl.-Ing. (FH) Elisabeth Weisheit

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