

Test Report

Test Report No.: 26683301

Issue Date: 27/02/13(DD/MM/YY)

Client Information:

Supplier No. : 22276
Client Company Name : Hanung Toys & Textiles Ltd
Contact Address : 129E, NSEZ, Noida 201305, India
Client Contact Person : S.S.Das
IKEA Contacts Person : Manoj Kumar Sharma
Sample Receive Date/Test Start Date: 21/02/13

Sample information by applicant:

Article No. : 10243753/20243743/80233208/80233213/40233210/20233211
Article Name : KARLABY CVR AR and SB 120&140
Article Date Stamp : dec.2012
Material Producer : wenzhou shengen nonwoven co.,ltd
Material Description : /
Material Batch Number/Production Date: dec2012
Test type : Production Test
Identification Code : non-woven
Fibre Content : 100%polypropylene
Construction : nonwoven
Sample Desc : grey
Additional Information : fabric used as lining in sofabed covers&armrest covers;test requirements as specified in ios-prf-0025&ios-mat-0010;determination of size refers to usable width



Information By Lab : /

Test Method:

Fibre Analysis by FTIR

Organotin compounds acc. to IOS-MAT-0010

APEO acc. to IOS-MAT-0010

Color fastness to water ISO 105-E01

Color fastness to rubbing dry ISO 105-X12

Color fastness to perspiration ISO 105-E04

pH value in textile, ISO3071

Formaldehyde content in textile, ISO14184-1

Optical brightening agents

General IKEA requirement, 16 CFR 1610

Determination of size ISO 22198

Determination of Weight, Non-wovens (GSM) ISO 9073-1



Lars Wretman

ITTC General Manager

The test results exclusively relate to the samples under test.

The test report shall not be reproduced except in full, without the written approval of our laboratory.

Fibre Analysis

(A) Test Result Summary

Testing Item	Result
Main Material	Polypropylene (PP) *

Remark: * By Fourier Transform Infrared Spectrometer (FTIR) Analysis Procedure.

(B) Test Method

Testing Item	Testing Method
Fibre Analysis	With Reference to ISO 1833: 2006& AATCC 20: 2010& AATCC 20A: 2010

Determination of Organotin compounds

(A) Test Result Summary (For IKEA Specification IOS-MAT-0010: AA-10911-10)

Testing Item	Test Results, mg/kg	IKEA Limits, mg/kg
Monobutyltin(MBT)	ND	/
Dibutyltin(DBT)	ND	0.1
Tributyltin(TBT)	ND	0.1
Monooctyltin(MOT)	ND	/
Tetrabutyltin(TTBT)	ND	/
Diocetyl tin(DOT)	ND	/
Triphenyltin(TPT)	ND	/
Tricyclohexhexyltin(TCyT)	ND	/
Sum of Organotins	ND	2.5

Remark: ND= Not Detected, less than report limit

(B) Test Method

Testing Item	Testing Method	Report Limit, mg/kg
Organotin	Extraction and GC-MS	0.05

Nonylphenol Ethoxylates (NPEO) And Octylphenol Ethoxylates (OPEO) Content

(A) Test Result Summary (For IKEA Specification IOS-MAT-0010: AA-10911-10)

Testing Item	Test Results, mg/kg	IKEA Limits, mg/kg
NPEO	ND	/
OPEO	ND	/
Sum of NPEO &OPEO	ND	Skin contact 100/Non skin contact 250

Remark: ND= Not Detected, less than report limit

(B) Test Method

Testing Item	Testing Method	Report Limit, mg/kg
NPEO &OPEO	Extraction and Liquid Chromatography–Mass Spectrometric Detector (LC-MSD)	10

Colour Fastness To Water (Refer To IOS-TM-0007: AA-300792-4, IOS-PRF-0025: AA-35450-11, ISO 105-A02: 1993, ISO 105-A03: 1993, ISO 105-E01: 2010):

		IKEA Limit
Colour Change	4-5	/
Colour Staining		
-Acetate	4-5	/
-Bleached Cotton	4-5	
-Polyamide	4-5	
-Polyester	4-5	
-Acrylic	4-5	
-Wool	4-5	

- *Blind test is included for comparison.*
- *Pre-heating of the test device to the test temperature is not performed.*

Colour Fastness To Rubbing (Refer To IOS-TM-0007: AA-300792-4, IOS-PRF-0025: AA-35450-11, ISO 105-X12: 2002, ISO 105-A02: 1993, ISO 105-A03: 1993):

		IKEA Limit
<u>Colour Change</u>		
Dry	4-5	/
<u>Colour Staining</u>		
Dry	4-5	/

Remark:

- *Size of rubbing finger is 16mm diameter. Force 9N.*
- *Evaluation result is based on the combined effect of colour change and change in surface structure*
- *Specimen and rubbing cloth had been conditioned for 8h in an atmosphere of (20±2) °C and (65±2) % RH.*

Colour Fastness To Perspiration (Refer To IOS-TM-0007: AA-300792-4, IOS-PRF-0025: AA-35450-11, ISO 105-E04: 2008, ISO 105-A02: 1993, ISO 105-A03: 1993):

	<u>Acid</u>	<u>Alkaline</u>	IKEA Limit
Colour Change	4-5	4-5	/
Colour Staining			
-Acetate	4-5	4-5	/
-Bleached Cotton	4-5	4-5	
-Polyamide	4-5	4-5	
-Polyester	4-5	4-5	
-Acrylic	4-5	4-5	
-Wool	4-5	4-5	

- *Blind test is included for comparison.*
- *Pre-heating of the test device to the test temperature is not performed.*

Determination Of pH Of Aqueous Extract (Refer To IOS-TM-0007: AA-300792-4, IOS-PRF-0025: AA-35450-11, ISO 3071: 2005, extract by distilled water)

pH Value	IKEA Limit
6.8	/

<i>Temperature of extracting solution, °C</i>	<i>21</i>
<i>pH of distilled water</i>	<i>6.37</i>

Remark:

- *The test sample is resistance to be wetting out of.*

Determination Of Formaldehyde (Refer To IOS-TM-0007: AA-300792-4, IOS-PRF-0025: AA-35450-11, ISO 14184-1: 2011)

	Formaldehyde content (mg/ kg)	IKEA Limit
Mean value	Not detectable	/

No.	1	2
Individual value	Not detectable	Not detectable

- *The standard curve is performed once a month.*
- *The concentration of formaldehyde stock solution is certified by Hach-Lange.*

Remark:

- *Value below 16 ppm is reported as 'Not detectable'.*
- *The test sample is resistance to be wetting out of.*

Visual Checking For Optical Brightener Under Ultra-Violet Illuminant (Refer IOS-PRF-0025: AA-35450-11):

Under Ultra-Violet Illuminant	
Observation :	No optical brightener was observed



No.399, Gangwen Road, Fengxian District Shanghai, China 201413
Tel: (86-21) 3755 4800 Fax: (86-21) 3755 4819

Resistance to ignition by flame, 16 CFR 1610 (1-1-12 Edition)	Test result	
Resistance to ignition by flame, 16 CFR 1610 (1-1-12 Edition), <i>Evaluation according to IOS-TM-0007:AA-300792-4</i>	DNI	*
<i>The classification system used in 16 CFR 1610 shall not be reported.</i>		

- * Comment at end of report
- N.T. Test not performed, comment at end of report
- N.A. Test not applicable to tested object

Comments

Reference to 16 CFR Part 1610(1-1-12 Edition), according to IOS-TM-0007:AA-300792-4			
Place in an oven at 105±3 °c for 30±2 minutes, then move to a dessicator for at least 15 minutes			
16mm flame applied for 1 second			
Plain Surface:	✕	Raised Surface:	
Preliminary trial results			
Position	Time(s)	Results code*	Description of direction and surface
a	/	DNI	Face & Lengthwise
b	/	DNI	Face & Widthwise
c	/	DNI	Reverse & Lengthwise
d	/	DNI	Reverse & Widthwise
Test results			
Sample	Position	Time(s)	Result code*
1	a	/	DNI
2	a	/	DNI
3	a	/	DNI
4	a	/	DNI
5	a	/	DNI
Average Flame Spread Time(s):		/	

* DNI Did Not Ignite; IBE Ignited But Extinguished; SF uc Surface Flash under cord.
 SF pw Surface Flash part way; SF poi Surface Flash, at point of impingement;
 SFonly Surface Flash only, time in seconds, no damage to the base fabric;
 SFBB Surface Flash Base Burn. Time in seconds, base burn starting at place other than impingement.
 SFBB poi Surface Flash Base Burn. Time in seconds, base burn starting at the point of impingement.
 SFBB poi* The asterisk (*) is accompanied by the statement "unable to make an absolute determination of the source of base burn".

Determination Of Size (Refer To IOS-PRF-0025: AA-35450-11, ISO 22198: 2006):

Full Width	IKEA Tolerance
1.94 m	/

- The marked table was not used when measuring the length longer than 1m.*

Determination of Weight, Non-wovens (Refer To IOS-TM-0007: AA-300792-4, IOS-PRF-0025: AA-35450-11, ISO 9073-1:1989):

Fabric weight	IKEA Tolerance
130 g/m ² *	/

* Comment at end of report

Comment

1	2	3
133 g/m ²	125 g/m ²	131 g/m ²

Conditioning temperature	(20±2) °C	Conditioning humidity	(65±4)%
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-----End of Report-----