

Hong Kong Government Recognized Service Supplier
Approved Laboratory of The Woolmark Company

Members of :

American National Standards Institute
American Society for Testing and Materials
British Standards Institute

Hong Kong Association for Testing, Inspection and Certification Limited
Hong Kong Toys Council

Test Report

Number: HKGH01927328

Applicant: H K SUNSHINE INTERNATIONAL CO LTD
A2406 WANDA CENTER
BAOZHOU ROAD
QUANZHOU FUJIAN
CHINA 362100
Attn: SALLY ZENG

Date: Mar 16, 2016

Submitted sample said to be:

Article Name : **White Fabric.**
Supplier No. : 30000.
Supplier Name : H.K Sunshine International Co. Ltd.
Material Producer : Sunshine.
Colour Number : White.
Fiber Content : 100% Polypropylene Nonwoven.
Buyer : IKEA.
End Use : IKEA Pillow Case, Mattress.
Quantity : 1 Piece.
IKEA Contact Person : Not Provided.
IKEA Office Location : Not Provided.



For and on behalf of :
Intertek Testing Services HK Ltd.

Angel Y.F. Cheung
Vice President





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Conclusion:
The submitted sample was tested under the following requirements requested by the applicant, subject to the information stated in the remark and attached page(s) for details :

<u>Requirement</u>	<u>Result</u>
(1) IKEA Specification IOS-MAT-0010 Version No. AA-10911-13 on Alkylphenoethoxylates (APEO), Alkylphenols (AP) and Alkylphenol Phosphites Content	Pass
(2) IKEA Specification IOS-MAT-0010 Version No. AA-10911-13 on Formaldehyde Content	Pass
(3) IKEA Specification IOS-MAT-0010 Version No. AA-10911-13 on Organotin Content	Pass
(4) IKEA Specification IOS-MAT-0054 Version No. AA-92520-9 for Migration of Certain Elements	Pass



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(1) Alkylphenoethoxylates (APEO), Alkylphenols (AP) and Alkylphenol Phosphites Content

As per IKEA Specification IOS-MAT-0010 Version No. AA-10911-13, solvent extraction was used and followed by Liquid Chromatographic - Mass Spectrometric (LC-MS) Analysis.

Compound	Result in ppm
Nonylphenols (NP)	<10
Octylphenols (OP)	<10
Nonylphenoethoxylates (NPEO)	<10
Octylphenoethoxylates (OPEO)	<10
Tris(nonylphenol) phosphite (TNPP)	<10
Total	<10

Requirement (total) : 100ppm (max)

Remark : ppm = parts per million = mg/kg

Date sample received : Mar 08, 2016

Testing period : Mar 08, 2016 to Mar 11, 2016

(2) Formaldehyde Content

As per IKEA Specification IOS-MAT-0010 Version No. AA-10911-13, ISO 14184-1 was used and followed by Spectrometric.

Result in ppm	Requirement in ppm
< 10	20 (max.)

Remark :

ppm = parts per million = mg/kg

Date sample received : Mar 08, 2016

Testing period : Mar 08, 2016 to Mar 11, 2016



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(3) Organotin Content

As per IKEA Specification IOS-MAT-0010 Version No. AA-10911-13 and followed by Gas Chromatography Mass Spectrometric (GC/MS) Analysis.

Compound	Result in ppm	Requirement in ppm
Monobutyltin (MBT)	<0.05	--
Monooctyltin (MOT)	<0.05	--
Dibutyltin (DBT)	<0.05	0.20 (max.)
Dioctyltin (DOT)	<0.05	--
Tributyltin (TBT)	<0.05	0.20 (max.)
Triphenyltin (TPhT)	<0.05	--
Tricyclohexyltin (TCyT)	<0.05	--
Tetrabutyltin (TeBT)	<0.05	--
Methyltin (MeT)	<0.05	--
Dipropyltin (DProT)	<0.05	--
Diphenyltin (DPhT)	<0.05	--
Total :	<0.05	2.5 (max.)

Remark : ppm = parts per million = mg/kg

Date sample received : Mar 08, 2016

Testing period : Mar 08, 2016 to Mar 11, 2016



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(4) 19 Toxic Element Migration Test

As per IKEA Specification IOS-MAT-0054 Version No. AA-92520-9, EN 71 Part 3:2013 + A1:2014 was used.

Category (III): Scraped-off toy material

Element	Result (mg/kg)	Limit (mg/kg)
Aluminium (Al)	< 300	70000
Antimony (Sb)	< 10	560
Arsenic (As)	< 10	47
Barium (Ba)	< 10	18750
Boron (B)	< 50	15000
Cadmium (Cd)	< 5	17
Chromium (III) (Cr III) **	<10	460
Chromium (VI) (Cr VI) **	< 0.1	0.2
Cobalt (Co)	< 10	130
Copper (Cu)	< 10	7700
Lead (Pb)	< 10	160
Manganese (Mn)	< 10	15000
Mercury (Hg)	< 10	94
Nickel (Ni)	< 10	930
Selenium (Se)	< 10	460
Strontium (Sr)	< 100	56000
Tin (Sn)	< 10	180000
Organic tin **	< 2.0	12
Zinc (Zn)	< 100	46000

Remark : mg/kg = milligram per kilogram

** = Unless the test results were marked with "#" or "Δ", Chromium (III) & Chromium (VI) and Organic tin contents were not directly determined and were derived from migration results of total chromium and tin respectively.

- Organic tin test result was expressed as tributyl tin.

Date sample received : Mar 08, 2016

Testing period : Mar 08, 2016 to Mar 10, 2016

End of report

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