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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.) |
| Diocetyl tin (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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