

Test Report

Report No. SCL01J00056000701

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Applicant ZHANGZHOU YINMEI PRINTING INK CO., LTD

Address DONGCHE VILLAGE , HUOTIAN TOWN, YUNXIAO COUNTY, ZHANGZHOU CITY , FUJIAN PROVINCE, CHINA

The following sample(s) and sample information was/were submitted and identified by/on the behalf of the client

Sample Name INK

Client Reference Information Please refer to the following page(s).

Sample Received Date Jan. 4, 2017

Testing Period Jan. 4, 2017 to Jan. 10, 2017

Test Conducted:

As requested by the applicant, for details refer to next page(s)

Tested by

Maon Zhang

Reviewed by

Amber Feng

Approved by

Danny Liu

Date

Jan. 10, 2017

Danny Liu

Technical Manager

Centre Testing International Group Co., Ltd.

Hongwei Industrial Zone, Bao'an 70 District, Shenzhen, Guangdong, China

No. R158921728

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Executive Summary:

TEST REQUEST

- (1) ASTM F963-11 Standard Consumer Safety Specification for Toy Safety
 - Clause 4.3.5 Heavy elements – Migration of certain elements
- (2) European Standard on Safety of Toys
 - EN 71-3:2013+A1:2014 Migration of certain elements

CONCLUSION

PASS

PASS

***** For Further Details, Please Refer To the Following Page(s) *****

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Client Reference Information

A001(AC/ACNP)、A002 (ACN)、A003、A004 (AD)、A005 (APA/APANP)、A006 (APAC)、A007、
A101 (APE)、A350 (PU)、A351 (APU)、A410 (PET)、A500 (PS)、A501、A505 (PS)、A506 (PSF)、
A521 (PSNP)、A522 (PSD)、A523 (PSA)、A525 (UV)、A555、A580、A582、A599 (UV)、A616 (TPR)、
A617 (TAR)、A618 (TCR)、A619 (THR)、A620 (TPRA)、A810 (SAC)、A811 (SAD)、A812 (SANC)、
C001 (SLF)、C002 (SCA)、C003 (SCC)、C004、C125、C266、C350 (TPU)、C355 (PU)、C430、
C435、C438、C505 (PS)、C560、C800、F111 (FA)、G001 (VD)、G002 (VDN)、G003 (PV/PVA)、
G004 (PVAN)、G005 (VHC/VCK)、G006 (VGA/VCC)、G007、G008 (VT)、G009 (VP/VPA)、
G010 (VPVN)、G011 (WVD)、G012、G014 (UV)、G016 (VDP)、G017 (VDP)、G018 (G01)、
G019 (VDH)、G020 (TOTM)、G021 (LFL)、G022 (ACV)、G023 (VDL)、G024 (CTV)、G025 (VC)、
G120、G121、G122 (DPE)、G123[(ZPEVA)、DPE (F)]、G124 (HPE)、G125、G126 (HH)、G127、
G128、G129、G130 (MPE)、G131、G132 (PPB)、G133、G150 (WPE)、G270、G272、G275 (OPP)、
G276、G330 (KA)、G350 (VPU)、G358、G430 (PETN)、G431 (PET)、G432 (PB)、G433 (VRD)、
G435 (WVHC)、G436、G437、G439、G449、G505、G510 (MMA)、G520 (VK)、G521 (PUF)、
G542 (#42)、G600 (#28)、G650 (#52)、G707 (T)、G708 (PT)、G709 (PL)、G810 (VL)、G904 (#29)、
G905 (#35)、S001 (SB)、S002 (SBC)、S003 (SBD)、S004 (SBN)、S006 (SS)、S007 (SSN)、
S008 (SA)、S009 (SL)、S010 (PA/SPA)、S011、S015 (WSB)、S018 (WCS)、S019 (BL)、S020、
S266 (SPP)、S350 (SPL)、S351 (SPLA)、S352 (SPLC)、S353 (SPLE)、S354 (SPY)、S355 (PU)、
S357、S358、S440 (SRD)、S444 (SPET)、S505、S560 (PSC)、S580、S650 (RP)、S651 (EVA)、
S652 (SEVA)、S653 (PLGS)、S800 (NC)、S816、S818、S886 (SGT)、S888 (SG)、S901 (#5)、
S902 (#7)、S903 (#45)
01100 (110)、10200 (102)、10400 (104)、20000 (200)、20010、20300 (203)、20380、20600 (206)、
20610、20700 (207)、20900 (209)、21000 (210)、22000、22240、23000、30000 (300)、30100(301)、
30200 (302)、30300 (303)、30380 (3038)、30400 (304)、30600 (306)、30700 (307)、30730 (3073)、
30740 (3074)、30800 (308)、30910、30970、30980、31400 (314)、31500 (315)、40100 (401)、
40200 (402)、40300 (403)、40310、40400 (404)、40600 (406)、40700 (407)、40800 (408)、449、
50000 (500)、50100 (501)、50200 (502)、50300 (Conductive black)、60100 (601)、60200 (602)、
70100 (701)、70200、80100 (801)、80105、90100 (901)、90200 (902)、21310 (131)、31330 (133)、
31340 (134)、31580 (158)、31590 (159)、41480 (148)、61400 (140)、01200 (2000)、01300 (4000)

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(1) ASTM F963-11 Standard Consumer Safety Specification for Toy Safety

▼ Clause 4.3.5 Heavy elements – Migration of certain elements

Method(s) ASTM F963-11 Clause 8.3 was/were used, and the item(s) was/were analyzed by ICP-OES.

<u>Tested Item(s)</u>	<u>Result (mg/kg)</u>	<u>MDL (mg/kg)</u>	<u>Limit (mg/kg)</u>
Soluble Antimony (Sb)	N.D.	5	60
Soluble Arsenic (As)	N.D.	2.5	25
Soluble Barium (Ba)	239	5	1000
Soluble Cadmium (Cd)	N.D.	5	75
Soluble Chromium (Cr)	N.D.	2.5	60
Soluble Lead (Pb)	N.D.	5	90
Soluble Mercury (Hg)	N.D.	2.5	60
Soluble Selenium (Se)	N.D.	5	500

Remark:

- MDL = Method Detection Limit
- N.D. = Not Detected (<MDL)
- mg/kg = ppm = parts per million
- Results shown of soluble elements are of adjusted analytical results by subtracting analytical Correction factor.
- Filter paper was used instead of 0.45µm membrane filter in lab testing.
- The test result(s) is(are) presented in reference to the result(s) that reported in SCL01J000560007.

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(2) European Standard on Safety of Toys

▼ EN 71-3:2013+A1:2014 Migration of certain elements

Method(s) EN 71-3:2013+A1:2014 was/were used, and the item(s) was/were determined by ICP-OES, ICP-MS, HPLC-ICP-MS and/or GC-MS.

Category III: scraped-off toy material

<u>Tested Item(s)</u>	<u>Result (mg/kg)</u>	<u>MDL (mg/kg)</u>	<u>Limit (mg/kg)</u>
Aluminium (Al)	N.D.	50	70000
Antimony (Sb)	N.D.	5	560
Arsenic (As)	N.D.	5	47
Barium (Ba)	341	50	18750
Boron (B)	N.D.	50	15000
Cadmium (Cd)	N.D.	1	17
Chromium (III) ^{#1}	N.D.	0.2	460
Chromium (VI)	N.D.	0.002	0.2
Cobalt (Co)	N.D.	5	130
Copper (Cu)	N.D.	50	7700
Lead (Pb)	N.D.	5	160
Manganese (Mn)	N.D.	50	15000
Mercury (Hg)	N.D.	5	94
Nickel (Ni)	N.D.	5	930
Selenium (Se)	N.D.	5	460
Strontium (Sr)	N.D.	50	56000
Tin (Sn) ^{#2}	N.D.	2	180000
Organic tin (TBT) ^{#3}	N.D.	0.05	12
Zinc (Zn)	N.D.	50	46000