

Test Report

No. SHAEC2102923213

Date: 05 Mar 2021

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HANG ZHOU TOKA INK CO,LTD

NO.2,THE 5TH AVENUE(SOUTH),BAIYANG JIE DAO,HANGZHOU ECONOMIC&TECHNOLOGICAL DEVELOPMENT AREA

The following sample(s) was/were submitted and identified on behalf of the clients as : UV (BEST CURE) MIXTURE INKS

SGS Job No. : SP21-004147 - SH

Model No. : UV 161、UV VP、UV HY-BD、UV SUP、UV YQ15-NT、UV YQ69-NT、UV LHP、UV NEW HZ、UV HZ、UV L CARTON、UV LS、UV NH、UV NH (H)、UV KFI、UV 171、UV CS、UV RNC、UV NVR、UV BF、UV PFP-NT、UV PANTONE、UV G-PACK、UV TPU01、UV SF、UV DT、UV KY、
UV HF、UV NHF、UV NHF-LED、UV NT、UV CHP、UV BG、UV QYS-NT、UV KTP、UV DG、UV HC、UV NEW HF、UV HL、UV HJ、UV YL-NT、UV ASP、UV NT (XY)、UV GCP、UV SJ、UV HN-DZ、UV WL、UV INCARD、UV SCREEN、UV K-HS、UV OFS、UV LED、UV 161-LED、UV LES、UV TS、
YT UV INK、UV CHD、UV ZH、UV SOYA、UV VNL、UV HT、UV FLEXO、UV YUNNAN BAIYAO、UV LeCard、UV ART、UV LeCure、LED UV HK/90、UV GP、UV GP-LED、UV ART、UV H-PACK、UV IJ、UV LC-LED、UV TK/KW/NO.7 OPV、UV HJK、UV MATT OPV、UV EMBOSS、UV NYD、UV ST、
UV HAKURI OP VARNISH、UV EMBOSS BASE/SURFACE、UV NO.1,NO.3、NO.5,NO.6 SILVER、UV RICH GOLD/UV PALE GOLD、UV NO.2 CONTEX、UV UP-2 OPV、UV INK DRYING AGENT、UV SLIP AGENT、UV LEVELING AGENT、UV ABRASION RESISTANCE ADDITIVE、UV MPS、
UV FLUORESCENT INK、UV WEB、LC-LED WEB、UV U-CARD、MontAge α、MontAge α WEB、MontAge α、UV Biomass MIXTURE。

Composition : INK

Date of Sample Received : 23 Feb 2021

Testing Period : 23 Feb 2021 - 26 Feb 2021

Test Requested : Selected test(s) as requested by client.

Test Method : Please refer to next page(s).

Test Results : Please refer to next page(s).

Conclusion :



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Based on the performed tests on submitted sample(s), the results of Cadmium, Lead, Mercury, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs) and Phthalates such as Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP) comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

The sum of Total Lead, Cadmium, Mercury and Hexavalent Chromium content in the submitted packaging sample comply with the Limit stated in European Council Directive 94/62/EC - Article 11 that effective from June 2001.

Signed for and on behalf of
SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

Helen Liu
Approved Signatory



This report is the English version of SHAEC2102923214 .



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Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	SHA21-029232.004	Black ink

Remarks :

- (1) 1 mg/kg = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated

RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

Test Method : With reference to IEC 62321-4:2013+AMD1:2017, IEC62321-5:2013, IEC62321-7-2:2017, IEC 62321-6:2015 and IEC62321-8:2017, analyzed by ICP-OES, UV-Vis and GC-MS.

Test Item(s)	Limit	Unit	MDL	004
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1000	mg/kg	2	ND
Mercury (Hg)	1000	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))	1000	mg/kg	8	ND
Sum of PBBs	1000	mg/kg	-	ND
Monobromobiphenyl	-	mg/kg	5	ND
Dibromobiphenyl	-	mg/kg	5	ND
Tribromobiphenyl	-	mg/kg	5	ND
Tetrabromobiphenyl	-	mg/kg	5	ND
Pentabromobiphenyl	-	mg/kg	5	ND
Hexabromobiphenyl	-	mg/kg	5	ND
Heptabromobiphenyl	-	mg/kg	5	ND
Octabromobiphenyl	-	mg/kg	5	ND
Nonabromobiphenyl	-	mg/kg	5	ND
Decabromobiphenyl	-	mg/kg	5	ND
Sum of PBDEs	1000	mg/kg	-	ND
Monobromodiphenyl ether	-	mg/kg	5	ND
Dibromodiphenyl ether	-	mg/kg	5	ND
Tribromodiphenyl ether	-	mg/kg	5	ND
Tetrabromodiphenyl ether	-	mg/kg	5	ND



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<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>004</u>
Pentabromodiphenyl ether	-	mg/kg	5	ND
Hexabromodiphenyl ether	-	mg/kg	5	ND
Heptabromodiphenyl ether	-	mg/kg	5	ND
Octabromodiphenyl ether	-	mg/kg	5	ND
Nonabromodiphenyl ether	-	mg/kg	5	ND
Decabromodiphenyl ether	-	mg/kg	5	ND
Di-butyl Phthalate (DBP)	1000	mg/kg	50	ND
Benzyl Butyl Phthalate (BBP)	1000	mg/kg	50	ND
Di-2-Ethyl Hexyl Phthalate (DEHP)	1000	mg/kg	50	ND
Diisobutyl Phthalates (DIBP)	1000	mg/kg	50	ND

Notes :

- (1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863. IEC 62321 series is equivalent to EN 62321 series
https://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101:::FSP_ORG_ID,FSP_LANG_ID:1258637,25
- (2) The restriction of DEHP, BBP, DBP and DIBP shall apply to medical devices, including in vitro medical devices, and monitoring and control instruments, including industrial monitoring and control instruments, from 22 July 2021.

European Council Directive 94/62/EC - Article 11

Test Method : With reference to IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013 and IEC 62321-7-2:2017, analysis was performed by ICP-OES and UV-Vis.

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>004</u>
Cadmium (Cd)	-	mg/kg	5	ND
Lead (Pb)	-	mg/kg	5	ND
Mercury (Hg)	-	mg/kg	5	ND
Hexavalent Chromium (Cr(VI))	-	mg/kg	8	ND
Total (Pb + Cd + Cr (VI) + Hg)	100	mg/kg	-	ND

The result is reported based on the sample after drying for 18 hours in oven.



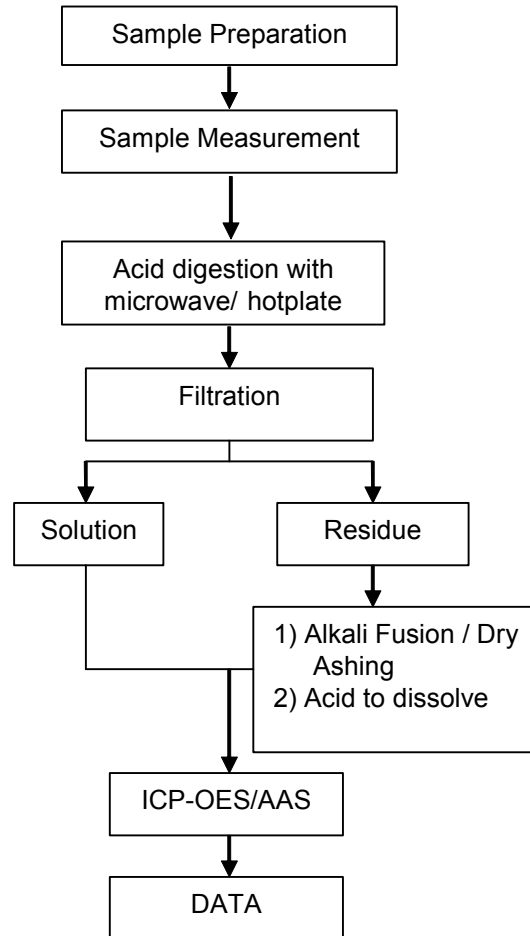
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Elements (IEC62321) Testing Flow Chart

1) These samples were dissolved totally by pre-conditioning method according to below flow chart.

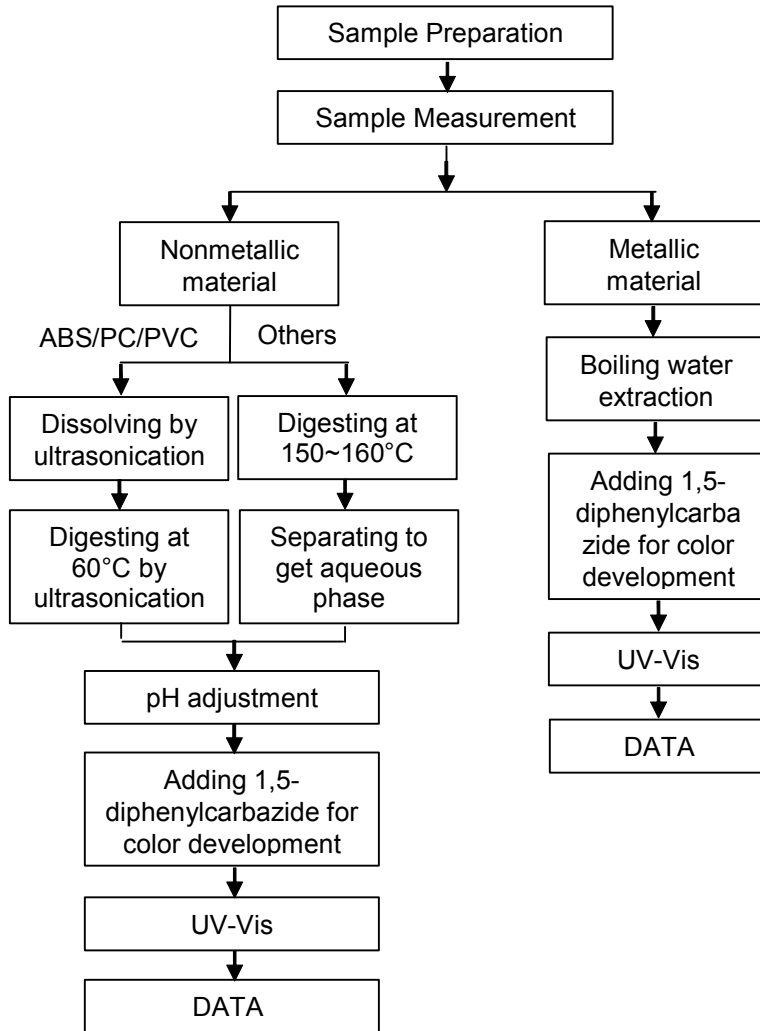


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Hexavalent Chromium (Cr(VI)) Testing Flow Chart

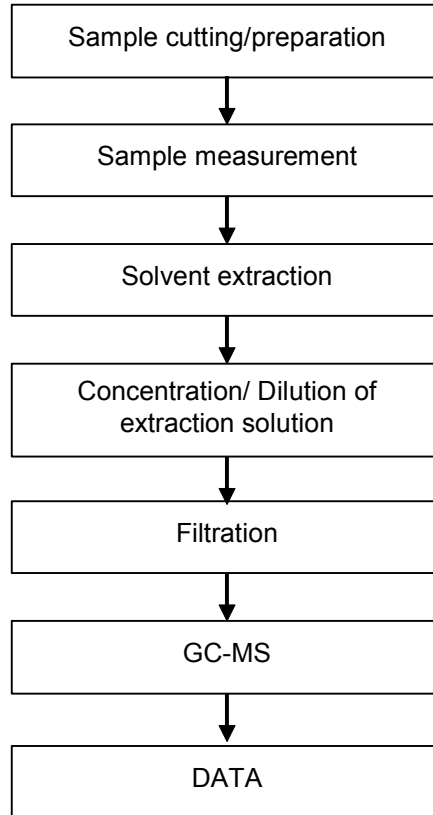


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PBBs/PBDEs Testing Flow Chart

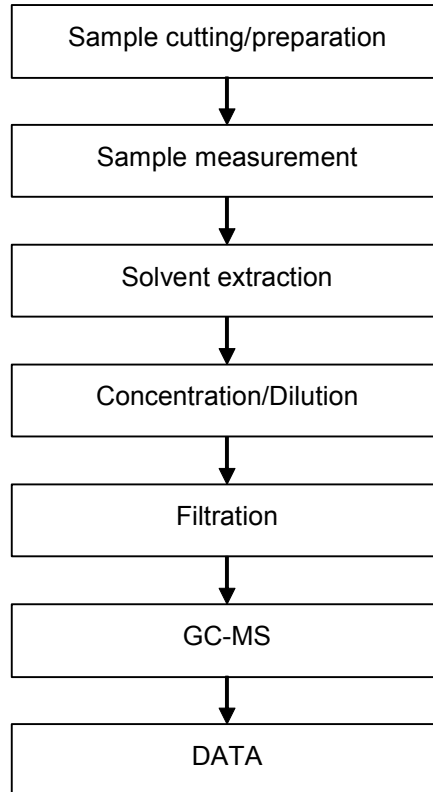


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Phthalates Testing Flow Chart



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