Products



Report No.:	248104606-03	Page 1 of 5
Client:	SHANGHAI KEYING TRADING CO.,LTD (U 740 North of Zhong Shan Road, Shanghai, 2000 Tel.: 021-63174205 Contact person: Mr. Simon Huang	•
Test Item(s):	Ink	
Identification/ Model No(s):	SolkJET2585B; Model: Printing ink; Material: Solu	ution; Color: Blue
Sample receiving date:	2019-07-05	
Test period:	2019-07-08 to 2019-07-10	
Test Specification:		Test result:
Electronic Equipment, 2017 1. Cadmium, Lead, Chror	ertain Hazardous Substances in Electrical and 1/65/EU and its amendments nium (VI), Mercury, Polybrominated biphenyls ated diphenyl ethers (PBDE) BP, BBP, DiBP)	PASS PASS

For and on behalf of TÜV Rheinland Vietnam Co., Ltd.



Ms. Dao Thuy Khanh Linh/

2019-07-11 **Project Manager**

Date

Name/Position

Test result is drawn according to the kind and extent of tests performed.

This test report relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any safety mark on this or similar products.

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Material List:

Material No.	Material	Color	Location
M001	Ink	Blue	Ink

1. Cadmium, Lead, Chromium (VI), Mercury, Polybrominated biphenyls (PBB) and Polybrominated diphenyl ethers (PBDE)

 Total Cadmium, Lead, Mercury: Totally digested then determination by ICP-OES, follow IEC 62321-4:2013 and IEC 62321-5:2013
Chromium (VI): Non-metal: Alkaline digestion, determination by UV-Vis spectrophotometry Metal: spot test and followed by boiling water test, follow IEC 62321-7-1:2015
PBBs, PBDEs: Extraction with organic solvent, determination by GC-MS, follow IEC 62321-6:

Extraction with organic solvent, determination by GC-MS, follow IEC 62321-6:2015

Test result:

			Material No.	M001
Test parameter	Unit	RL	Requirement	Result
Cadmium (Cd)	mg/kg	2	< 100	n.d.
Lead (Pb)	mg/kg	2	< 1000	n.d.
Mercury (Hg)	mg/kg	2	< 1000	n.d.
Chromium VI (Cr VI) for metal protective coating	µg/cm²	0.02	< 0.1	N.A.
Chromium VI (Cr VI)	mg/kg	3	< 1000	n.d.
Total Polybrominated biphenyls (PBBs) (*)	mg/kg	5	< 1000	n.d.
Total Polybrominated biphenyl ethers (PBDEs) (*)	mg/kg	5	< 1000	n.d.
Conclusion				Pass

Abbreviation: mg/kg = milligram per kilogram

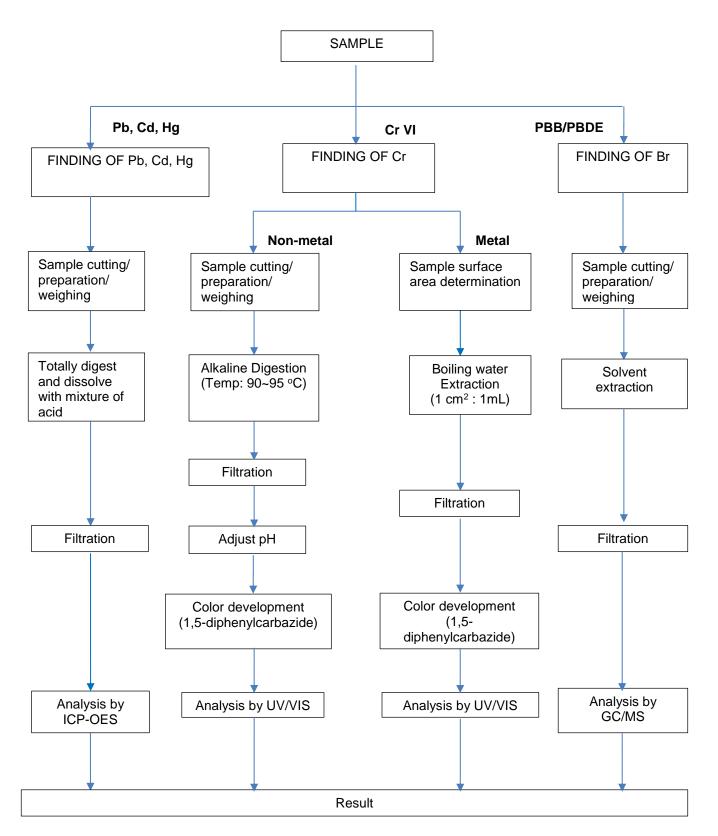
RL = Reporting Limit n.d.= Not Detected (<RL) μg/cm² = microgram per square centimeter N.A.: Not Applicable

Remark:According to IEC 62321-7-1:2015, result of Cr VI for metal sample is shown as
Pass/Fail/Inconclusive.
Pass = Absence of Cr VI coating, Cr VI concentration is below the 0,10 μg/cm²
Fail = Presence of Cr VI coating, Cr VI concentration is above 0.13 μg/cm²
Inconclusive = Cr VI concentration is between 0.10~0.13 μg/cm². Further test with extra
samples is recommended



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Flow chart for RoHs



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(*)	
List of PBBs	List of PBDEs
Bromobiphenyl (MonoBB)	Bromodiphenyl ether (MonoBDE)
Dibromobiphenyl (DiBB)	Dibromodiphenyl ether (DiBDE)
Tribromobiphenyl (TriBB)	Tribromodiphenyl ether (TriBDE)
Tetrabromobiphenyl (TetraBB)	Tetrabromodiphenyl ether (TetraBDE)
Pentabromobiphenyl (PentaBB)	Pentabromodiphenyl ether (PentaBDE)
Hexabromobiphenyl (HexaBB)	Hexabromodiphenyl ether (HexaBDE)
Hexabromobiphenyl (HeptaBB)	Heptabromodiphenyl ether (HeptaBDE)
Octabromobiphenyl (Tech)(OctaBB)	Octabromodiphenyl ether (OctaBDE)
Nonabromobiphenyl (NonaBB)	Nonabromodiphenyl ether (NonaBDE)
Decabromobiphenyl (DecaBB)	Decabromodiphenyl ether (DecaBDE)

2. Phthalates (DEHP, DBP, BBP, DiBP)

Test method: Extraction with organic solvent, determination by GC-MS With reference to IEC 62321-8 (111/321/CD)

Test result:

			Material No.	M001
Test parameter	Unit	RL	Requirement	Result
Diethylhexylphthalate (DEHP)	mg/kg	50	< 1000	n.d.
Dibutylphthalate (DBP)	mg/kg	50	< 1000	n.d.
Benzylbutylphthalate (BBP)	mg/kg	50	< 1000	n.d.
Diisobutylphthalate (DiBP)	mg/kg	50	< 1000	n.d.
Conclusion				Pass

Abbreviation: n.d. = not detected (< Reporting Limit) RL = Reporting Limit mg/kg = milligram per kilogram



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Sample photo:



Lab ID.: A000952893-001

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