



SHENZHEN UNIGREAT TECHNOLOGY CO.LTD
深圳市嘉宇顺科技有限公司

Technical Report: (8818)058-0003

Mar 2, 2018

Date Received: Feb 26, 2018

Page 1 of 7

SHENZHEN UNIGREAT TECHNOLOGY CO.LTD
深圳市嘉宇顺科技有限公司
NO 10,WAIHUAN ROAD,SHILONGZAI INDUSTRIAL
PARK,SHIYAN,SHUITIAN,BAOAN DISTRICT,SHENZHEN
深圳市宝安区石岩镇水田石龙仔石环路 10 号

Sample Description:	油墨 (SEE ATTACHMENT)	Sample Size:	2
Vendor:	丽采、坤宇、美丽华、志诚、洲名	Style No(s):	NOT PROVIDE
Manufacturer:	N/A	SKN/SKU No.:	NOT PROVIDE
Buyer:	N/A	PO No.:	NOT PROVIDE
Labeled Age Grade:	NOT RECORD	Ref #:	NOT PROVIDE
Appropriate Age Grade:	NOT REQUESTED	Country of Origin:	NOT PROVIDE
Client Specified Age Grade:	NOT SPECIFIED	Assortment No.:	NOT PROVIDE
Grade:		Test Finished Date:	MAR 2, 2018
Tested Age Grade:	N/A		
UPC Code:	N/A		
Test Starting Date:	FEB 26, 2018		

EXECUTIVE SUMMARY:

The sample(s) MEETS the following requirement(s):

- The heavy metals and flame retardants content requirements of the European Council Directive 2011/65/EU on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS).
- The BBP/DBP/DEHP/DIBP content requirements of the European Council Directive 2011/65/EU on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS) with its amendments.

Note: The composite test sample(s) of the submitted samples was prepared in the manner requested by the client, when subject to the test performed.

BUREAU VERITAS SHENZHEN CO.,LTD
DONGGUAN BRANCH

Harvey Xue
Manager, Analytical Lab

RT/RM/JO

REMARK

If there are questions or concerns on this report, please contact the following persons:

Report Enquiry: (86) 0769 89952999 Ext. 8175 CPSAnalytical.DG@cn.bureauveritas.com

Business Contact: (86) 0769 85893595

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Technical Report: **(8818)058-0003**

Mar 2, 2018

Page 2 of 7

ATTACHMENT:

Sample Description:

KY 系列:

KY-4300-501 黑色 KY-4300-110 光油 KY-4300-102 白色

C 系列:

C-33-501 黑色 C-33-102 白色 C-33-110 光油 C-33-细闪银 C-59-透明油 C-59 透明黄 C-59 透明兰
C-59 透明红 C-59 透明黑 C-59 透明紫

ABS 系列:

ABS-501 黑色 ABS-102 白色 ABS-110 光油 ABS-302 大红 ABS-203 原黄
ABS-403 原兰 ABS-401 紫色 ABS-408 翠蓝

MY 系列:

MY-501 黑色 MY-104 特白 MY-110 光油 MY-302 大红 MY-203 原黄
MY-403 原兰 MY-403 紫色 MY-408 翠蓝

LPT 系列

LPT-501 黑色 LPT-102 白色 LPT-110 光油 LPT-302 大红 LPT-203 原黄
LPT-403 原兰 LPT-401 紫色 LPT-408 蓝色

SA 系列:

SA-00 特光油 SA-51 特光黑 SA-52 特光红 SA-53 特光黄 SA-54 特光兰
SA-55 特光紫 SA-501 特光原黑 SA-00 特光油 SA-00 特光专用开油水

ZHPY 系列:

ZHPY-501 黑色 ZHPY-110 光油 ZHPY-102 白色 ZHPY-302 大红 ZHPY-203 原黄
ZHPY-401 紫色 ZHPY-403 原兰 ZHPY-408 单蓝 ZHPY-01 固化剂

ZH 系列:

ZH88-501 黑色 ZH88-110 光油 ZH88-302 大红 ZH88-203 原黄
ZH88-401 紫色 ZH88-403 原兰 ZH85-110 光油 ZH85-501 黑色 ZHP-501 黑色

银浆

溶剂:

SV-5 慢干剂 993 慢干剂 电镀专用开油水

Tested Component(s) Description List:

Test Item(s)	Item / Component Description(s)	Location(s)	Style(s)
I001	Gray ink	Ink	-
I002	Green ink	Ink	-



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Technical Report: **(8818)058-0003**

Mar 2, 2018

Page 3 of 7

RESULTS:

Heavy Metals and Flame Retardants Content – European Council Directive 2011/65/EU on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS)

Test Method : See Appendix.

See Analytes (Parameter) and their corresponding Maximum Allowable Limit (Req.) in Result Table	Type I	Metallic material
	Type II	Glass or ceramic material
	Type III	Other non-metallic material except Type II

-	Unit	Req.	Result
Test Item(s)	-	-	I001+I002
Type	-	III	III
Parameter	-	-	-
Lead (Pb)	mg/kg	1000	ND
Cadmium (Cd)	mg/kg	100	ND
Mercury (Hg)	mg/kg	1000	ND
Chromium VI (Cr VI)	mg/kg	1000	ND
PBBs	mg/kg	1000	ND
MonoBB	mg/kg	-	ND
DiBB	mg/kg	-	ND
TriBB	mg/kg	-	ND
TetraBB	mg/kg	-	ND
PentaBB	mg/kg	-	ND
HexaBB	mg/kg	-	ND
HeptaBB	mg/kg	-	ND
OctaBB	mg/kg	-	ND
NonaBB	mg/kg	-	ND
DecaBB	mg/kg	-	ND
PBDEs	mg/kg	1000	ND
MonoBDE	mg/kg	-	ND
DiBDE	mg/kg	-	ND
TriBDE	mg/kg	-	ND
TetraBDE	mg/kg	-	ND
PentaBDE	mg/kg	-	ND
HexaBDE	mg/kg	-	ND
HeptaBDE	mg/kg	-	ND
OctaBDE	mg/kg	-	ND
NonaBDE	mg/kg	-	ND
DecaBDE	mg/kg	-	ND
Conclusion	-	-	PASS



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Technical Report: **(8818)058-0003**

Mar 2, 2018

Page 4 of 7

RESULTS:

Note / key:

ND = Not detected

">" = Greater than

Req. = Requirement

NR = Not requested

mg/kg = milligram(s) per kilogram = ppm = part(s) per million

NA = Not Applicable

10000 mg/kg = 1 %

% = percent

Detection Limit (mg/kg) :

For Type I: Each (Pb, Cd & Hg) 10

For Type II: Each (Pb, Cd, Hg & Cr VI) 10

For Type III: Polymers & Electronics - Each (Pb, Cd, Hg & Cr VI): 10; Each (PBBs & PBDEs): 50
Others - Each (Pb, Cd & Hg): 10; Cr VI: 3.0; Each (PBBs & PBDEs): 50

Remark:

- The list of analytes is summarized in table of Appendix.
- According to European Council Directive 2011/65/EU, Article 5 "Adaptation of the Annexes to scientific and technical progress", exemption(s) should be granted to the materials and components of Test Item(s) in the lists in Annexes III and IV of this directive.



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Mar 2, 2018

Page 5 of 7

APPENDIX:

List of Analytes and their Corresponding Test Methods [European Council Directive 2011/65/EU] :		
No.	Name of Analytes	Test Method(s)
1	Lead (Pb)	With reference to International Standard IEC 62321-5: 2013.
2	Cadmium (Cd)	
3	Mercury (Hg)	With reference to International Standard IEC 62321-4: 2017.
4	Chromium VI (Cr VI)	<p>Metal :</p> <p>With reference to International Standard IEC 62321-7-1: 2015.</p> <p>Polymers and Electronics :</p> <p>With reference to European Standard EN 62321-7-2: 2017.</p> <p>Leather :</p> <p>International Standard ISO 17075-1:2017.</p> <p>Other than Metal, Leather, Polymers and Electronics:</p> <p>With reference to International Standard ISO 17075-1:2017.</p>
5	Polybromobiphenyls (PBBs) - Bromobiphenyl (MonoBB) - Dibromobiphenyl (DiBB) - Tribromobiphenyl (TriBB) - Tetrabromobiphenyl (TetraBB) - Pentabromobiphenyl (PentaBB) - Hexabromobiphenyl (HexaBB) - Heptabromobiphenyl (HeptaBB) - Octabromobiphenyl (OctaBB) - Nonabromobiphenyl (NonaBB) - Decabromobiphenyl (DecaBB)	With reference to International Standard IEC 62321-6: 2015.
6	Polybromodiphenyl ethers (PBDEs) - Bromodiphenyl ether (MonoBDE) - Dibromodiphenyl ether (DiBDE) - Tribromodiphenyl ether (TriBDE) - Tetrabromodiphenyl ether (TetraBDE) - Pentabromodiphenyl ether (PentaBDE) - Hexabromodiphenyl ether (HexaBDE) - Heptabromodiphenyl ether (HeptaBDE) - Octabromodiphenyl ether (OctaBDE) - Nonabromodiphenyl ether (NonaBDE) - Decabromodiphenyl ether (DecaBDE)	
[a]	The principle of this method was evaluated and supported by two studies organized by IEC TC 111 WG3. These studies were focused on detecting the presence of Cr VI in the corrosion protection coatings on metallic samples.	



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Technical Report: **(8818)058-0003**

Mar 2, 2018

Page 6 of 7

RESULTS:

BBP/DBP/DEHP/DIBP Content – European Council Directive 2011/65/EU on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS) with its Amendments

Test Method : Sample was extracted with organic solvent and then analyzed by Gas Chromatograph Mass Spectrometer.

Test Parameter:	BBP	DBP	DEHP	DiBP	-
Limit (%):	0.1	0.1	0.1	0.1	-
Test Item(s)	Result (%)				Conclusion
I001+I002	ND	ND	ND	ND	PASS

Note / key:

BBP = Butyl benzyl phthalate (CAS No: 85-68-7)

DBP = Dibutyl phthalate (CAS No: 84-74-2)

DEHP = Di(2-ethylhexyl) phthalate (CAS No: 117-81-7)

DiBP = Diisobutyl phthalate (CAS No: 84-69-5)

ND = Not detected % = percent

10000 mg/kg = 1 %

mg/kg = milligram(s) per kilogram

Detection Limit (%) : Each 0.005

Remark:

- The amendment will be effective on 22 July 2019. For medical devices and control instruments, effective date will be 22 July 2021.



**BUREAU
VERITAS**

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Page 7 of 7

RESULTS:



END OF REPORT