

Test Report	No.:	CANEC24022332103	Date:	Oct 17, 2024	Page 1 of 8
Client Name:	BESTBRIGHT	ELECTRONICS CO., L	TD.		
Client Address:		NO.24 EAST INDUSTRI DONG PROVINCE, P.F		GSHAN LAKE	PARK, DONGGUAN
Sample Name:	Р	TC DICE			
The above sam	ple(s) and infor	mation were provided by	y the client.		
SGS Job No.:	S	ZP24-044577			
Sample Receivi	ng Date: O	oct 11, 2024			
Testing Period:	0	oct 11, 2024 ~ Oct 16, 20	024		
Test Requested	: S	elect test(s) as requeste	ed by the client.		
Test Method(s):	Р	lease refer to next page	(s).		
Test Result(s):	Р	lease refer to next page	(s).		
Test Requirem	nent				Conclusion
- Lead, Mercur (PBB), Polybro	y, Cadmium, H minated dipher benzyl phthalat	5/863 amending Annex I exavalent chromium, Po nyl ethers (PBDE), Bis(2 te (BBP), Dibutyl phthala	olybrominated bip 2-ethylhexyl) phth	ohenyls alate	Pass

Signed for and on behalf of SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Allie Chen

Allie Chen Approved Signatory

Halogen



See Results



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# **Test Report**

### No.: CANEC24022332103

Date: Oct 17, 2024

### Test Result(s):

Test Part Description:

SN ID	Sample No.	SGS Sample ID	Description
SN1	A3	CAN24-0223321-0001.C003	Black material

Remarks:

(1) 1 mg/kg = 1 ppm = 0.0001%

(2) MDL = Method Detection Limit

(3) ND = Not Detected (< MDL)

(4) "-" = Not Regulated

### EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU - Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP)

# **Test Method:** With reference to IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013, IEC 62321-7-2:2017 and IEC 62321-12:2023, analysis was performed by ICP-OES/AAS, UV-Vis and GC-MS.

Test Item(s)	Limit	Unit(s)	MDL	A3
Lead (Pb)	1000	mg/kg	2	51
Mercury (Hg)	1000	mg/kg	2	ND
Cadmium (Cd)	100	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))	1000	mg/kg	8	ND
Polybrominated biphenyls (PBB)	1000	mg/kg	-	ND
Monobrominated biphenyl (MonoBB)	-	mg/kg	25	ND
Dibrominated biphenyl (DiBB)	-	mg/kg	25	ND
Tribrominated biphenyl (TriBB)	-	mg/kg	25	ND
Tetrabrominated biphenyl (TetraBB)	-	mg/kg	25	ND
Pentabrominated biphenyl (PentaBB)	-	mg/kg	25	ND
Hexabrominated biphenyl (HexaBB)	-	mg/kg	25	ND
Heptabrominated biphenyl (HeptaBB)	-	mg/kg	25	ND
Octabrominated biphenyl (OctaBB)	-	mg/kg	25	ND
Nonabrominated biphenyl (NonaBB)	-	mg/kg	25	ND
Decabrominated biphenyl (DecaBB)	-	mg/kg	25	ND
Polybrominated diphenyl ethers (PBDE)	1000	mg/kg	-	ND
Monobrominated diphenyl ether		malka	25	ND
(MonoBDE)	-	mg/kg	20	ND
Dibrominated diphenyl ether (DiBDE)	-	mg/kg	25	ND
Tribrominated diphenyl ether (TriBDE)	-	mg/kg	25	ND
Tetrabrominated diphenyl ether		mg/kg	25	ND
(TetraBDE)	-	шу/ку	25	ND
Pentabrominated diphenyl ether	_	mg/kg	25	ND
(PentaBDE)	_	Шуку	20	ND
Hexabrominated diphenyl ether	_	mg/kg	25	ND
(HexaBDE)		mg/kg	20	ND
Heptabrominated diphenyl ether	-	mg/kg	25	ND
(HeptaBDE)			20	
Octabrominated diphenyl ether	-	mg/kg	25	ND
(OctaBDE) Unless otherwise agreed in writin		00	-	



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est Report No.: CANEC240	22332103	Date: Oc	t 17, 2024	Page 3 of 8
Test Item(s)	Limit	Unit(s)	MDL	A3
Nonabrominated diphenyl ether (NonaBDE)	-	mg/kg	25	ND
Decabrominated diphenyl ether (DecaBDE)	-	mg/kg	25	ND
Di-2-Ethyl Hexyl Phthalate (DEHP)	1000	mg/kg	50	ND
Benzyl Butyl Phthalate (BBP)	1000	mg/kg	50	ND
Dibutyl Phthalate (DBP)	1000	mg/kg	50	ND
Diisobutyl Phthalate (DIBP)	1000	mg/kg	50	ND

### Notes:

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(1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.

(2) IEC 62321 series is equivalent to EN 62321 series.

(3) 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.

## <u>Halogen</u>

Test Method: With reference to EN 14582:2016, analysis was performed by IC.

Test Item(s)	Unit(s)	MDL	A3
Fluorine(F)	mg/kg	20	ND
Chlorine(Cl)	mg/kg	50	781
Bromine(Br)	mg/kg	50	ND
lodine(I)	mg/kg	50	ND

Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (*w*=0) stated in ILAC-G8:09/2019.



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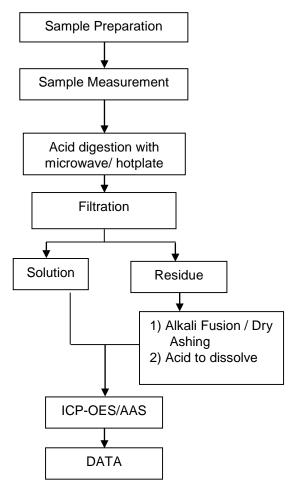
No.: CANEC24022332103

Date: Oct 17, 2024

Page 4 of 8

# **Elements Testing Flow Chart**

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





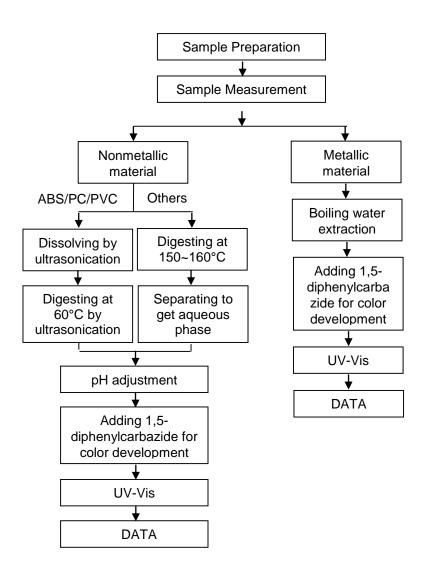
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No.: CANEC24022332103

Hexavalent Chromium (Cr(VI)) Testing Flow Chart





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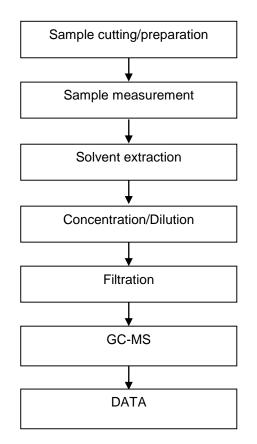
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Date: Oct 17, 2024

#### **PBB/PBDE/Phthalates Testing Flow Chart**





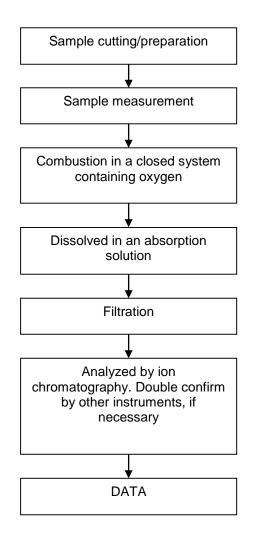
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### Halogen Testing Flow Chart





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