





Chaobiao Zhang

Lab:Shenzhen BCTC Testing Co.,Ltd.





BCTC

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BCTC

Date: Nov. 20, 2018

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BETC

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ROTE Test Method:

BCTC

A. Screening test by XRF spectroscopy

检测 TEST

801

TC

No.BCTC-FYC180094308R

XRF screening limits in mg/kg for regulated elements according to IEC 62321-3-1:2013.

BCTC	Limit of IEC 62321-3	MDL		
Element	Polymers and metals	Composite material	Polymers	Other material
Pb	BL≤(700-3σ) <x <(1300+3σ)<br="">≤OL</x>	BL≤(500-3σ) <x <(1500+3σ)<br="">≤OL</x>	10 mg/kg	50 mg/kg
Cd	BL≤(70-3σ) <x <(130+3σ)<br="">≤OL</x>	LOD≤(50-3σ) <x <(150+3σ)<br="">≤OL</x>	10 mg/kg	50 mg/kg
Hg	BL≤(700-3σ) <x <(1300+3σ)<br="">≤OL</x>	BL≤(500-3σ) <x <(1500+3σ)<br="">≤OL</x>	10 mg/kg	50 mg/kg
Cr	BL≤(700-3σ)< X	BL≤(500-3σ)< X	10 mg/kg	50 mg/kg
C Br	BL≤(300-3σ)< X	BL≤(250-3σ)< X	10 mg/kg	50 mg/kg

Note:

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BCTC -BL = Under the XRF screening limit

3CTC -OL = Further chemical test will be conducted while result is above the screening limit

-X= The symbol "X" marks the region where further investigation is necessary

 -3σ = The reproducibility of analytical instruments

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-LOD= Detection limit

B. Chemical Test

BCTC	Test Item(s)	Test Method	Measured Equipment(s)	MDL	Limit
	Lead (Pb)	IEC 62321-5:2013 Ed.1.0	ICP-OES	2 mg/kg	1000 mg/kg
	Cadmium (Cd)	IEC 62321-5:2013 Ed.1.0	ICP-OES	2 mg/kg	100 mg/kg
BCT	Mercury (Hg)	IEC 62321-4:2013+AMD1:2017	ICP-OES	2 mg/kg	1000 mg/kg
	Hexavalent Chromium Cr(VI)	IEC 62321-7-1:2015 Ed.1.0	UV-VIS	/ 8	1000 mg/kg
		IEC 62321-7-2:2017 Ed.1.0		8 mg/kg	1000 mg/kg
	Polybrominated Biphenyls (PBBs)	IEC 62321-6:2015 Ed.1.0	GC-MS	5 mg/kg	1000 mg/kg
	Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321-6:2015 Ed.1.0	GC-MS	5 mg/kg	1000 mg/kg
	BCTC	BCTC			BCIC

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Test Report

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Conclusion

PASS

PASS

PASS

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PASS

BCI

PASS

BCTC

PASS

BOTC

No.BCTC-FYC180094308R

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Sample

No.

1

2

20

3

4

5

7C

BCT

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Test Results:

<mark>倍测检测</mark> BCTC TEST

801

Tested Items

Pb

Cd

Hg

Cr(Cr(VI))

Br(PBBs&PBDEs)

Pb

Cd

Hg

Cr(Cr(VI))

Br(PBBs&PBDEs)

Pb

Cd

Hq

Cr(Cr(VI))

Br(PBBs&PBDEs)

Pb

Cd

Hg Cr(Cr(VI))

Br(PBBs&PBDEs)

Pb

Cd

Hq

Date: Nov. 20, 2018

XRF Screening Test

Unit (mg/kg)

BL

ΒL

ΒL

ΒL

/

BL

BL

ΒL

BL

BL

BL

ΒL

BL

BL

ΒL

ΒL

BL

ΒL

ΒL

BL

ΒL

BL

BL

ΒL

ΒL

BL

ΒL

ΒL

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Chemical Test

Unit (mg/kg)

/

/

/

/

1

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/

1

1

1

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1

1

1

1

/

/

1

/

1

1

1

1

/

1

Negative

85

BCTC

BCIC

BOTO

Sample

Description

Black metal

Black silicone

Black rope

Black plastic

Black silicone

button

861

BETC

shell

В	Silver metal	Cr(Cr(VI))
	1	Br(PBBs&PBDEs)
		Pb
		Cd
	Silver metal	Hg
		Cr(Cr(VI))
	BCI-	Br(PBBs&PBDEs)
		BCTC
<0		

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倍测检测 BCTC TEST

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		Pb	BL	dette	
	Transportant	Cd	BL	1	_
7	ransparent	Hg	BL	/	PASS
BC	giass	Cr(Cr(VI))	BL	/	(po
		Br(PBBs&PBDEs)	BL	TC /	_
	RCT	Pb	BL	/	
	Dissipation	Cd	BL	1	rd .
8	Black rubber	Hg	BL	/ 00	PASS
	nng	Cr(Cr(VI))	BL	/	_
	BETC	Br(PBBs&PBDEs)	BL	/	
	100 C	Pb	BL	ant	
	1.3	Cd Cd	BL	1	_
9	Silver metal ring	Hg	BL	/	PASS
0		Cr(Cr(VI))	BL	/	Brie
		Br(PBBs&PBDEs)	1	/	
	Silver metal - spring -	Pb	BL	/	
		Cd	BL	1-50	
10		Hg	BL	1	PASS
		Cr(Cr(VI))	BL	/	-275
1750		Br(PBBs&PBDEs)	BCI~ /	/	BCIN
Dr.	White plastic	Pb	BL	/	
		Cd	BL BC	/	
11		Hg	BL	/	PASS
		Cr(Cr(VI))	BL	1 80	
		Br(PBBs&PBDEs)	BL	/	
1	271	Pb	BL	/	B
D.	-	Cd	BL	1	
12	Red PCB	Hg	BL	SCIC /	PASS
		Cr(Cr(VI))	BL	/	
		Br(PBBs&PBDEs)	BL	/	Bere
	Gold metal - spring -	Pb	BL	/	
13		Cd	BL	/]
		Hg	BL	/	PASS
		Cr(Cr(VI))	BL	BC/C]
		Br(PBBs&PBDEs)	/	/	100

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		Pb	BL	ACTO	
		Cd	BL	1	
14	USB silver metal	Hg	BL	/	PASS
18	CTC	Cr(Cr(VI))	BL	/	- Pro-
		Br(PBBs&PBDEs)	/		
	BCT	Pb	BL	/	
		Cd	BL	1	d .
15	IC	Hg	BL	/ 00	PASS
		Cr(Cr(VI))	BL	/	
	BCTC	Br(PBBs&PBDEs)	BL	/	
		Pb	BL	ant	
	1.3	CTC Cd	BL	1	
16	SMD capacitor	Hg	BL	/	PASS
70		Cr(Cr(VI))	BL	/	Brin
1111		Br(PBBs&PBDEs)	BL	/	
	BCTC	Pb	BL	/	
		Cd	BL	1-50	
17		Hg	BL	1	PASS
	FGD	Cr(Cr(VI))	BL	/	-21
-	G	Br(PBBs&PBDEs)	B /	/	Bri
De.		Pb	BL	- /	
18	RET	Cd	BL BC	/	
	Red wire jacket	Hg	BL	1	PASS
		Cr(Cr(VI))	BL	1 80	
		Br(PBBs&PBDEs)	BL	/	
В	DTTC .	Pb	BL	/	18
	D-	Cd	BL	1]
19	Black wire jacket	Hg	BL	BCI-1	PASS
		Cr(Cr(VI))	BL	/	2750
76		Br(PBBs&PBDEs)	BL	/	Bernall.

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Test Report

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BCIC

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RETC

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Note:

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-MDL = Method Detection Limit

-N.D. = Not Detected (<MDL)

-mg/kg = ppm = parts per million

-Negative = Absence of Cr(VI), the detected Cr(VI) concentration in the boiling water extraction solution is less than $0.1\mu g/cm^2$ with 50cm² sample surface area used.

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-Positive = Presence of Cr(VI), the detected Cr(VI) concentration in the boiling water extraction solution is equal to or greater than $0.13\mu g/cm^2$ with $50cm^2$ sample surface area used.

Remark:

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- The screening results are only used for reference.

- When conducting the test for PBBs&PBDEs, XRF was introduced to screen Br Exclusively; When conducting the test for Hexavalent Chromium, XRF was introduced to screen Chromium exclusively.

BUTC

Test Process:

The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury. ♦ IEC 62321-5:2013 Ed.1.0

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