

Test Report No. SHAEC1828497905 Date: 22 Mar 2019 Page 1 of 12

WEE TECHNOLOGY COMPANY LIMITED

ROOM1405,14/F.,LUCKY CENTRE 171 WANCHAI ROAD,WANCHAI HONG KONG

The following sample(s) was/were submitted and identified on behalf of the clients as: DIODE

SGS Job No.: SP18-042203 - SUZ

Client Ref. Information: R1、R3、R5、R6,DO-15、DO-27、DO-34、DO-35、DO-41、A-405、DO-201

AL、DO-201AD、DO-201AE、DO-214AC、DO-214AA、DO-214AB、SMA、S

MA-J、SMB、SMC.MINI-MELF (DO-213AA)、MELF (DO-213AB)

SOD-110 \ SOD-123 \ SOD-123FL,DL-41 \ SOD-80 \ SOD-323 \ SOD523 \ S OT23、SOT323、SOT523、SOT89、TO-92、TO-126、Minidip、MBF、MBS, ABS, DBS,MBM, DO&SMD (DSMA,,SMA,SMB,SMC) &SOD-123FL&Minidip

Date of Sample Received: 24 Dec 2018

Testing Period: 24 Dec 2018 - 28 Dec 2018

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).

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

Dora Hu

Approved Signatory



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Test Results:

Test Part Description:

Specimen No. SGS Sample ID **Description**

SHA18-284979.001 SN₁ Black body with copper-colored pin(mix all*)

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)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1000	mg/kg	2	4242▲
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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Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</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 http://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP_ORG_ID,FSP_LANG ID:1258637,25
- (2)On 4 June 2015, Commission Directive (EU) 2015/863 was published in the Official Journal of the European Union (OJEU) to include the phthalates BBP, DBP, DEHP and DIBP into ANNEX II of the Rohs Recast Directive. The new law restricts each phthalate to no more than 0.1% in each homogeneous material of an electrical product.
- (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.
- (4)The restriction of DEHP, BBP, DBP and DIBP shall not apply to cables or spare parts for the repair, the reuse, the updating of functionalities or upgrading of capacity of EEE placed on the market before 22 July 2019, and of medical devices, including in vitro medical devices, and monitoring and control instruments, including industrial monitoring and control instruments, placed on the market before 22 July 2021.
- (5)The restriction of DEHP, BBP and DBP shall not apply to toys which are already subject to the restriction of DEHP, BBP and DBP through entry 51 of Annex XVII to Regulation (EC) No 1907/2006.
- (6) According to the declaration from the client, Lead (Pb) in No.001 is exempted by EU RoHS directive 2011/65/EU based on |ANNEX III 7(a)|: Lead in high melting temperature type solders (i.e. lead-based alloys containing 85 % by weight or more lead).

<u>Halogen</u>

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



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Test Item(s)	<u>Unit</u>	<u>MDL</u>	<u>001</u>	
Fluorine (F)	mg/kg	50	ND	
Chlorine (CI)	mg/kg	50	ND	
Bromine (Br)	mg/kg	50	ND	
lodine (I)	mg/kg	50	ND	

Element(s)

Test Method: With reference to US EPA 3052:1996, analysis was performed by ICP-OES.

Test Item(s)	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Antimony (Sb)	mg/kg	10	17

Alkanes C10-C13, chloro (short-chain chlorinated paraffins) (SCCP)

Test Method: With reference to ISO 18219: 2015, analysis was performed by GC-NCI-MS

Test Item(s)	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Alkanes C10-C13, chloro (short-chain chlorinated	mg/kg	50	ND
paraffins) (SCCP)			

Polycyclic aromatic hydrocarbons (PAHs)

Test Method: With reference to AfPS GS 2014:01 PAK, analysis was performed by GC-MS.

Test Item(s)	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Benzo(a)pyrene(BaP)	mg/kg	0.1	ND
Benzo(e)pyrene(BeP)	mg/kg	0.1	ND
Benzo(a)anthracene(BaA)	mg/kg	0.1	ND
Benzo(b)fluoranthene(BbF)	mg/kg	0.1	ND
Benzo(j)fluoranthene(BjF)	mg/kg	0.1	ND
Benzo(k)fluoranthene(BkF)	mg/kg	0.1	ND
Chrysene(CHR)	mg/kg	0.1	ND



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Test Item(s)		<u>Unit</u>	MDL	<u>001</u>
Dibenzo(a,h)anthracene(DBA)		mg/kg	0.1	ND
Benzo(g,h,i)perylene(BPE)		mg/kg	0.1	ND
Indeno(1,2,3-c,d)pyrene(IPY)		mg/kg	0.1	ND
Acenaphthylene(ANY)		mg/kg	0.1	ND
Acenaphthene(ANA)		mg/kg	0.1	ND
Fluorene(FLU)		mg/kg	0.1	ND
Phenanthrene(PHE)		mg/kg	0.1	ND
Pyrene(PYR)		mg/kg	0.1	ND
Anthracene(ANT)		mg/kg	0.1	ND
Fluoranthene(FLT)		mg/kg	0.1	ND
Sum of Acenaphthylene, Acenaphthe Anthracene, Fluoranthene	ene, Fluorene, Phenanthrene, Pyrene	e, mg/kg	-	ND
Naphthalene(NAP)		mg/kg	0.1	ND
Sum of 18 PAHs		mg/kg	-	ND



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AfPS (German commission for Product Safety): GS PAHs requirements

ATPS (German commission for Product Safety): GS PAHS requirements						
Parameter	Category 1	Category 2 Category 3			3	
	Material intended to be put in the mouth or toys with intended skin contact (longer than 30 s).	Materials not falling under category 1 with foreseeable contact to skin for longer than 30 s (long-term skin) or frequent contact.		Materials not falling category 1 or 2 with contact to skin for le (short-term skin con	foreseeable ss than 30 s	
		Toy under 2009/48/EC	Other products under ProdSG	Toy under 2009/48/EC	Other products under ProdSG	
Benzo(a)pyrene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1	
Benzo(e)pyrene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1	
Benzo(a)anthracene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1	
Benzo(b)fluoranthene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1	
Benzo(j)fluoranthene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1	
Benzo(k)fluoranthene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1	
Chrysene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1	
Dibenzo(a,h)anthracene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1	
Benzo(g,h,i)perylene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1	
Indeno(I,2,3-cd)pyrene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1	
Acenaphthylene, Acenaphthene, fluorene,phenanthrene, pyrene, anthracene, fluoranthene, mg/kg	< 1 Sum	< 5 Sum	< 10 Sum	< 20 Sum	< 50 Sum	
Naphthalene, mg/kg	<1	< 2		< 10		
Sum of 18 PAHs	<1	< 5	< 10	< 20	< 50	

^{*}The sample(s) was/were analyzed on behalf of the applicant as mixing sample in one testing. The above result(s) was/were only given as the informality value and only for reference. The test results are taken from report SHAEC1828497903 A01.



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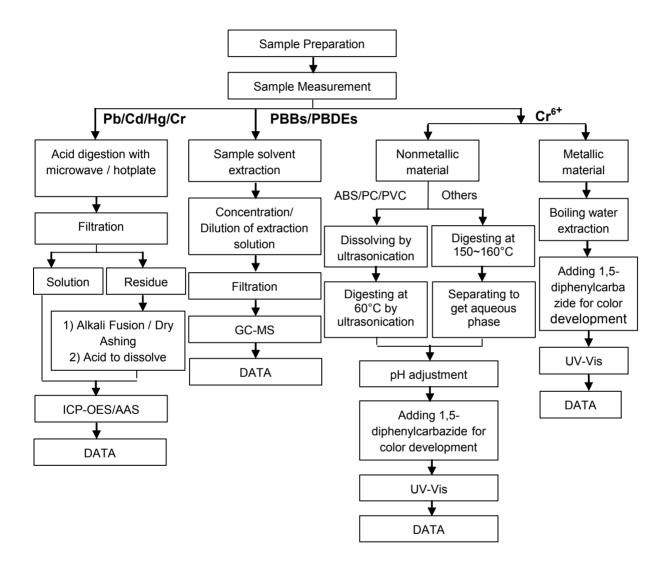
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Pb/Cd/Hg/Cr⁶⁺/PBBs/PBDEs Testing Flow Chart

1) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr⁶⁺ and PBBs/PBDEs test method excluded)





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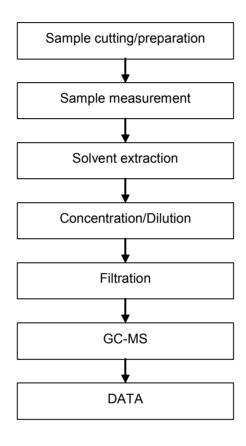
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Phthalates Testing Flow Chart





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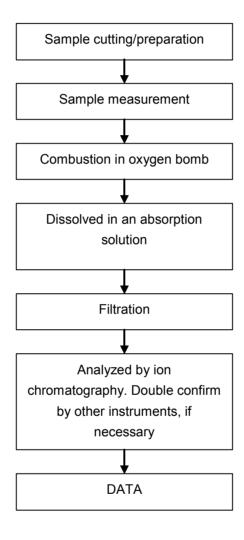
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Halogen Testing (oxygen bomb) Flow Chart





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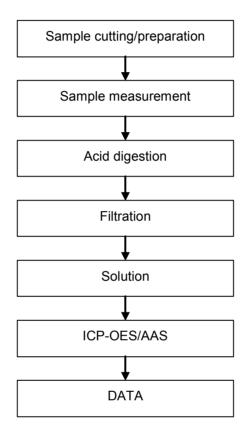


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Elements Testing Flow Chart





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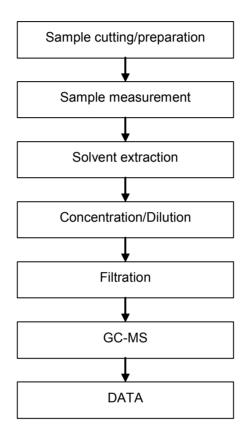
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PAHs Testing Flow Chart





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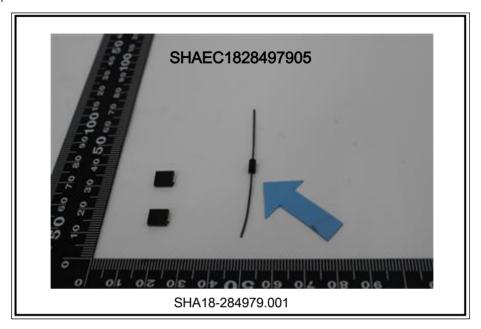


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Sample photo:



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