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1.25T SERIES

WWW.100Y.COM.TW Scope: This specification covers the 1.25mm spacing WIRE TO BOARD/WIRE TO WIRE connector series.

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WWW.100Y.COM.T

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[1. Product name and part number]

Product Name	Part Number
Terminal	1.25T-1-T
Pin-Terminal CO	1.25T-1-T(对插)
Housing CO TO	1.25T-1-NY
Receptacle Housing (For Pin-Terminal)	1.25T-1-NY(对插)
Wafer Assembly ST. (DIP/SMT)	1.25T-1-NA/1.25T-1-LT-NA/1.25T-1-LT-NA-B(
Wafer Assembly R.A (DIP/SMT)	1.25T-1-NAW/1.25T-1-WT-NA

Rated Current 1A (A	OC/AC (rms)
Applicable wires AWG	WG. #28)
	#28 ~ #32
Insulation O.D Ø1.0n	m (max.)
Ambient Temperature -40°C	~ +85°C *

^{*:} Including terminal temperature rise. ...vera

3-1. Electrical Performance

	ITEM	Test condition	Requirement
3-1-1	Contact resistance	Mate connectors, measure by dry circuit, 20mV(max.), 10mA. Mated Length: 50mm (AWG. #28) (Based upon JIS C5402 5.4)	20mΩ (max.)
3-1-2	Insulation resistance	Mate connectors, apply 500VDC between adjacent terminals. (Based upon JIS C5402 5.2/MIL-STD-202 method 302 Cond.B)	100MΩ (min.)
3-1-3	Dielectric strength	Mate connectors, apply 250VAC for 1 minute between adjacent terminals. (Based upon JIS C5402 5.1/MIL-STD-202 Method 301)	No breakdown and flashover
3-1-4	Contact resistance on crimped portion	Crimp the maximum applicable wire on to the terminal, measure by dry circuit, 20mV(max.), 10mA. Wire Length: 50mm (AWG. #28)	20mΩ (max.)

	ITEM	Test condition	Requirement
3-2-1	Insertion force and withdrawal force	Mate and unmate the connectors at a speed of 25±3mm/minute.	Refer to paragraph 5

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		WILL WITH TOOK ONLY		Vire size	#28	#30	#3
	-11007		1	width	0.45	0.9±0.1	1 0.3
	N.M.M. TO	Fig. the enimaged tempoinal analysevial and out force on the	neight ~0.55		~0.50	~0	
3-2-2	Crimping pull out	Fix the crimped terminal, apply axial pull out force on the wire at a speed of 25±3mm/min.	12			0.97	1.
3.2.2	force (Based upon JIS C5402 6.8)		-	Crimp	1.35 1.0kgf	1.22 0.8kgf	0.5
	W V	OOX. COW.LA. M. MAN. TOO Y. COW.L.	strength		min	min	m
OM.TV		100Y.COM.TW WWW.100Y.COM.TW	1: CONDUCTOR(mm) 2: INSULATION(mm)				
3-2-3	Terminal insertion force	Insert the crimped terminal into the housing at a speed of 25±3mm/min.	0.5kgf (max.)				
3-2-4	Terminal/ Housing retention force	Apply axial pull out force at a speed of 25±3mm/min. on the terminal assembled In the housing.	0.5kgf (min.)				
3-2-5	Pin retention force	Apply axial push force at a speed of 25±3mm/minute on the contact pin assembled in the base wafer.	0.5kgf (min.)				

WWW.	ITEM	Test condition	Requi	rement
3-3-1	Repeated insertion/ withdrawal	Mate connector up to 30 cycles repeatedly at a rate of 10 cycles/ minute. After which test the contact resistance	Contact resistance	40mΩ (max.)
3-3-2	Temperature rise	Apply rated current load on mated connector in series-connect change of temperature on contact using thermocouples for 4 ho upon UL 1977)		30°C (max.)
	MMM.1007.	Amplitude: 1.52mm	Appearance	No Damage
3-3-3	Vibration	Sweep time: 10-55-10Hz/minute Duration: 2 Hours in each X, Y, Z axlals.	Contact Resistance	40mΩ(max.
	MMM.100	(Based upon MIL-STD-202 method 201A)		1μ sec (max.
	WWW.	DOX.COM.TW WWW.100X.COM.TW	Appearance	No Damage
3-3-4 Shock		50G, 3 strokes in each X, Y, Z. axlals. (Based upon JIS C0041/MIL-STD-202 method 213B Cond.A)	Contact Resistance	40mΩ(max.
	WW	W.100Y.COM.TW WWW.100Y.COM.T.	Discontinuity	lμ sec (max.
	- W	Mated connector shall be placed in an oven for 96±4 hours at	Appearance	No Damage
3-3-5	Heat resistance	+85±2°C. (Based upon JIS C5402 7.8)	Contact Resistance	40mΩ(max.
2.2.6		Mated connector shall be placed in a temperature chamber for	Appearance	No Damage
3-3-6	Cold resistance	96±4 hours at -40±3°C (Based upon JIS C5402 7.9)	Contact Resistance	40mΩ(max.

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	100	Mated connector shall be placed in a humidity chamber	Appearance	No Damag
WT.	MMM.10	on the following conditions. Temperature: 40±2°C	Contact Resistance	40mΩ(max
3-3-7	Humidity	Relative humidity: 90~95% Duration: 96 Hours (Based upon JIS C0022/MIL-STD-202 Method 103B	Dielectric strength	Must mee 3-1-3
COM.TY	N MMA	Cond.B)	Insulation resistance	10MΩ (mi
		Mated connector shall be set to temperature cycling for	Appearance	No Dama
MY.COM	Temperature	5 cycles of which 1 cycle consists of: 1>.+25°C ~ 3 minutes	Contact Resistance	40mΩ(ma
3-3-8	cycling	2>40°C ~ 30 minutes 3>.+25°C ~ 3 minutes	Dielectric strength	Must mee 3-1-3
N.100Y.C	OM.TW	4>.+85°C ~ 30 minutes (Based upon JIS C5402 7.2)	Insulation resistance	10MΩ (mi
MM:100A	Mated connector shall be placed in a salt spray chamber on the following conditions. Salt Solution Density: 5±1% Temperature: 35±2°C	Appearance	No Dama	
3-3-9	San spray	Duration: First punch, second plate: 24±4 Hours First plate, second punch: 8±2 Hours Remarks: we make sure the important area	Contact Resistance	40mΩ(ma
3-3-10	Solderability	Immerse fluxed soldered section of contact pin into a solder bath for 3±0.5sec temperature: 230±5°C	95% of immerse no voids no	d area must sh or pin holes.
3-3-11	Resistance to soldering heat	Mated connector shall be dipped on solder bath for 5±0.5sec temperature: 260±5°C	No Damage	in appearance

[4. Insertion force and withdrawal force] WWW.1007.CO

WWW.100Y.COM.TW [UNIT:Kgf]

Circuits	Insertion (max.)	Wit	hdrawal (m	in.)
Circuits	Initial	Initial	10th	30th
2	2.0	0.28	0.23	0.18
3	2.5	0.30	0.25	0.20
4	CO3.0	0.33	0.28	0.23
V 5 .10	3.5	0.38	0.33	0.28
6	4.0	0.43	0.38	0.33
7	4.5	0.48	0.43	0.38
8	5.0	0.53	0.48	0.43
9	5.5	0.56	0.51	0.46

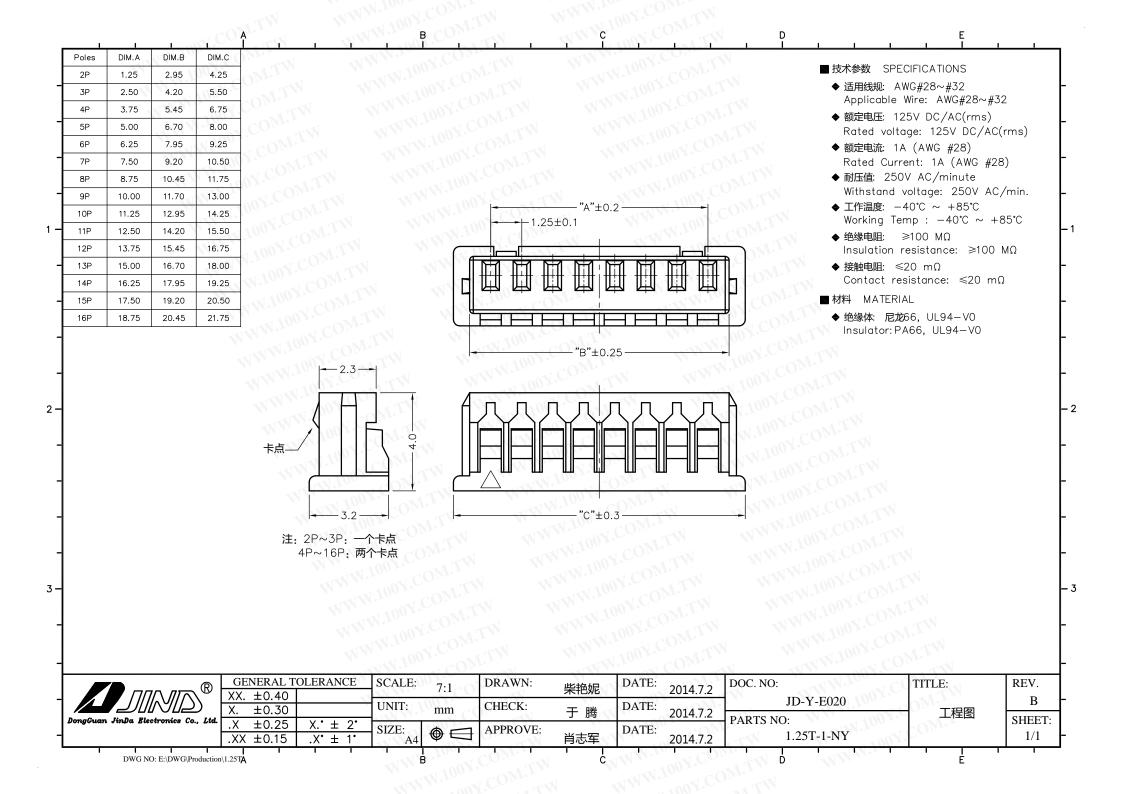


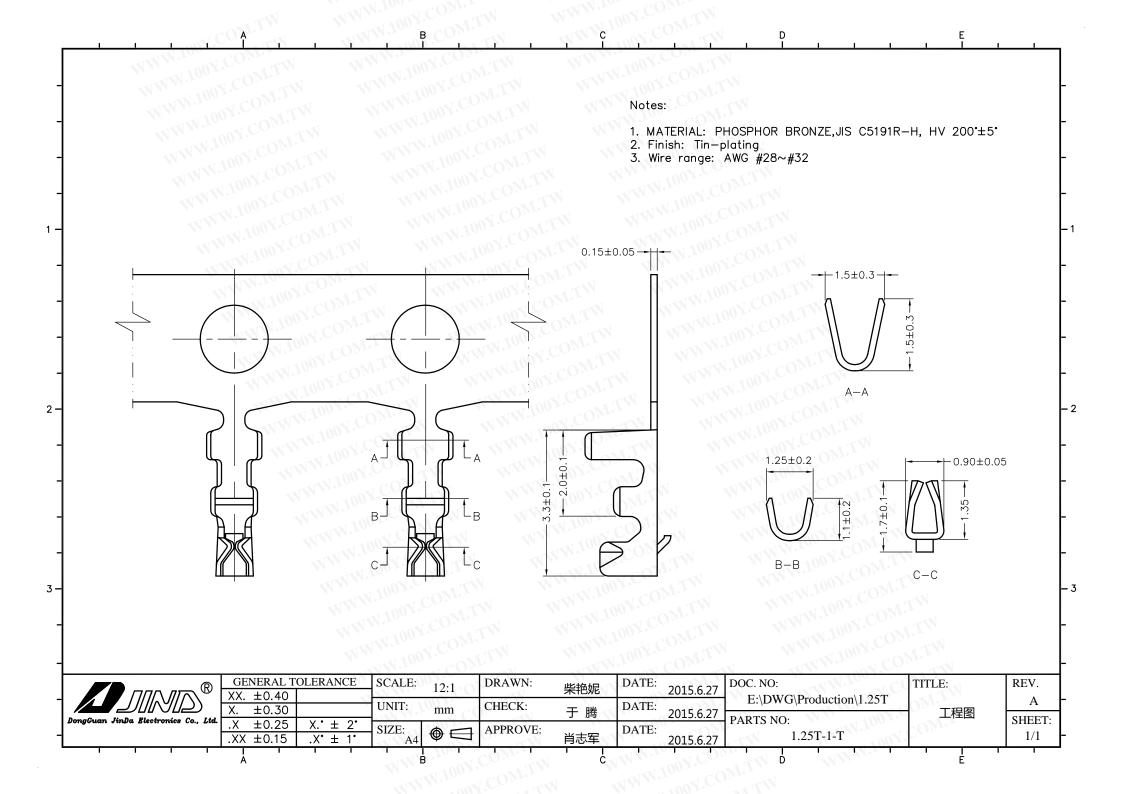
WWW.100Y.COM.TW [UNIT:Kgf]

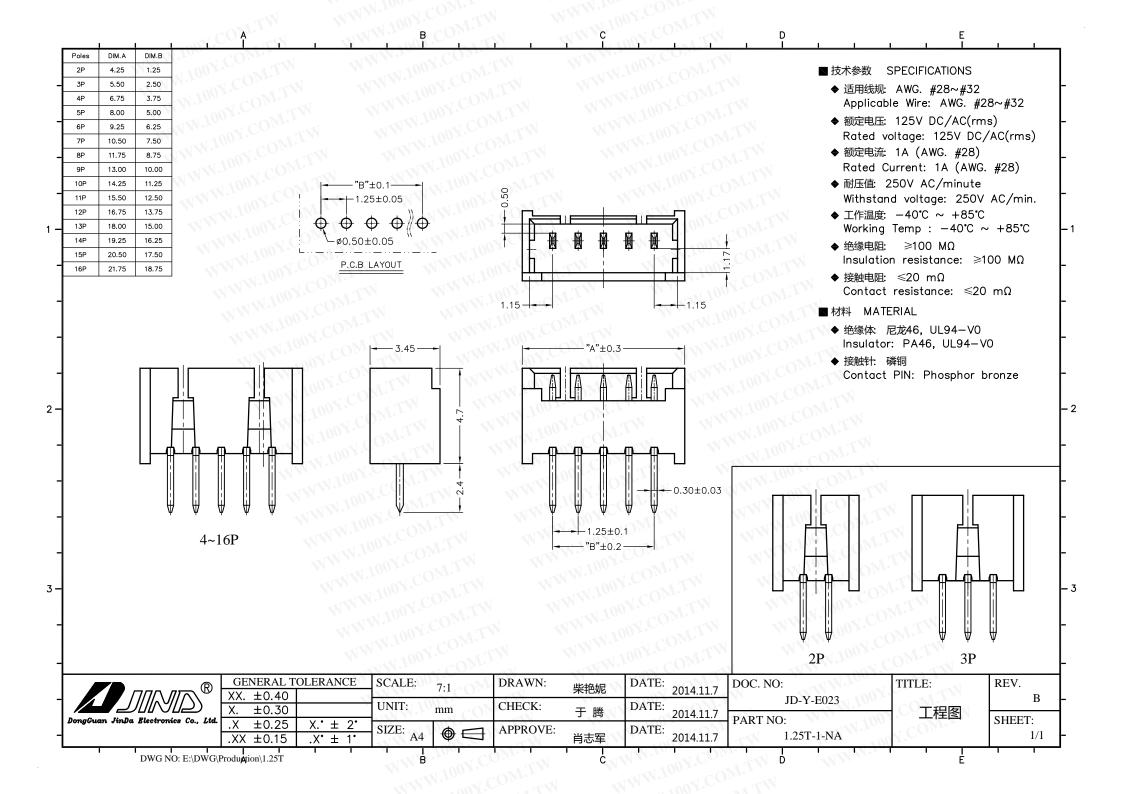
W.100	Insertion (max.)	Wit	hdrawal (mi	NIT:Kgf]
Circuits	Initial	Initial	10th	30th
10	6.0	0.59	0.54	0.49
11	6.5	0.62	0.57	0.52
12	7.0	0.65	0.60	0.55
13	7.5	0.68	0.63	0.58
14	8.0	0.71	0.66	0.61
15	8.5	0.74	0.69	0.64

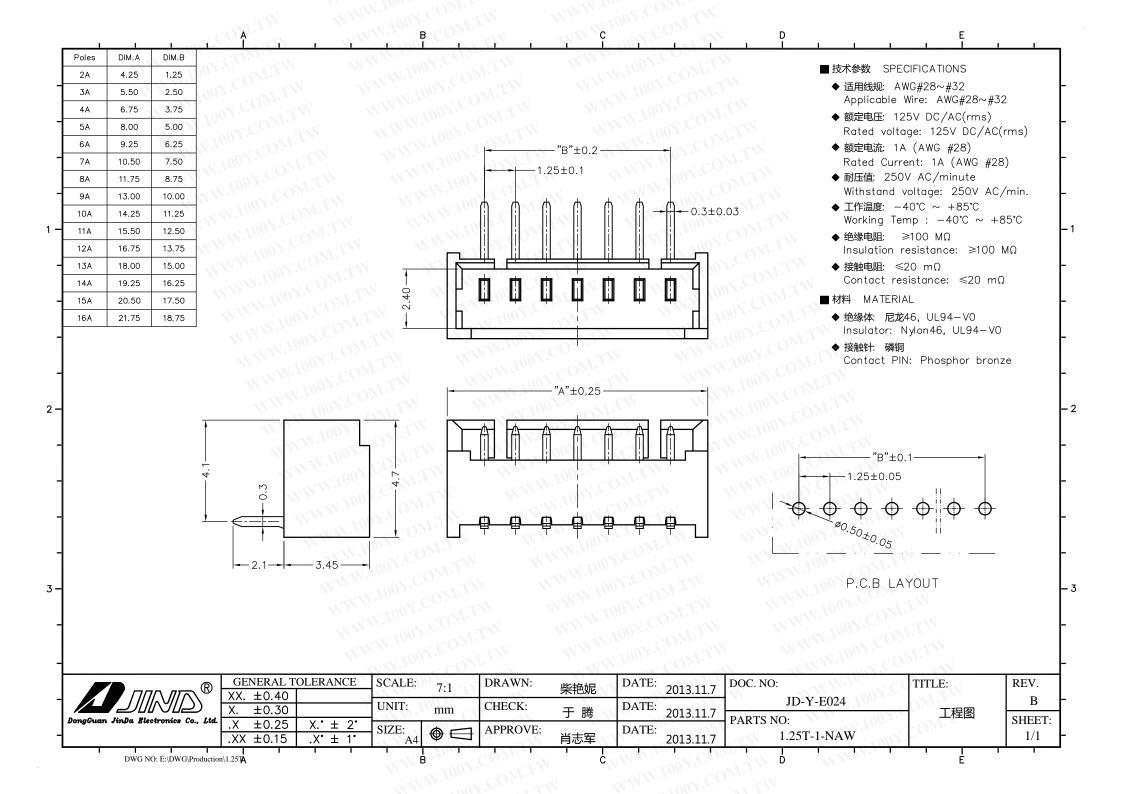
W.100Y.COM.TW OY.COM.TW [5. Product shape, Dimensions and materials]

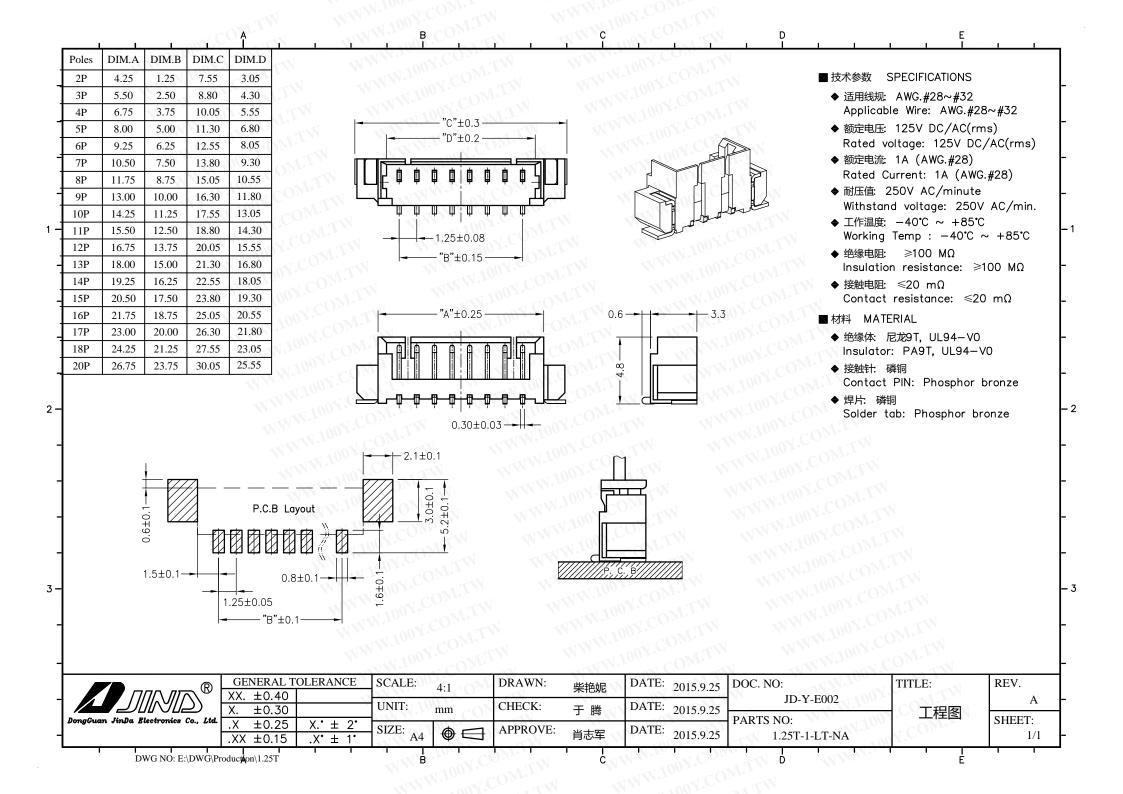
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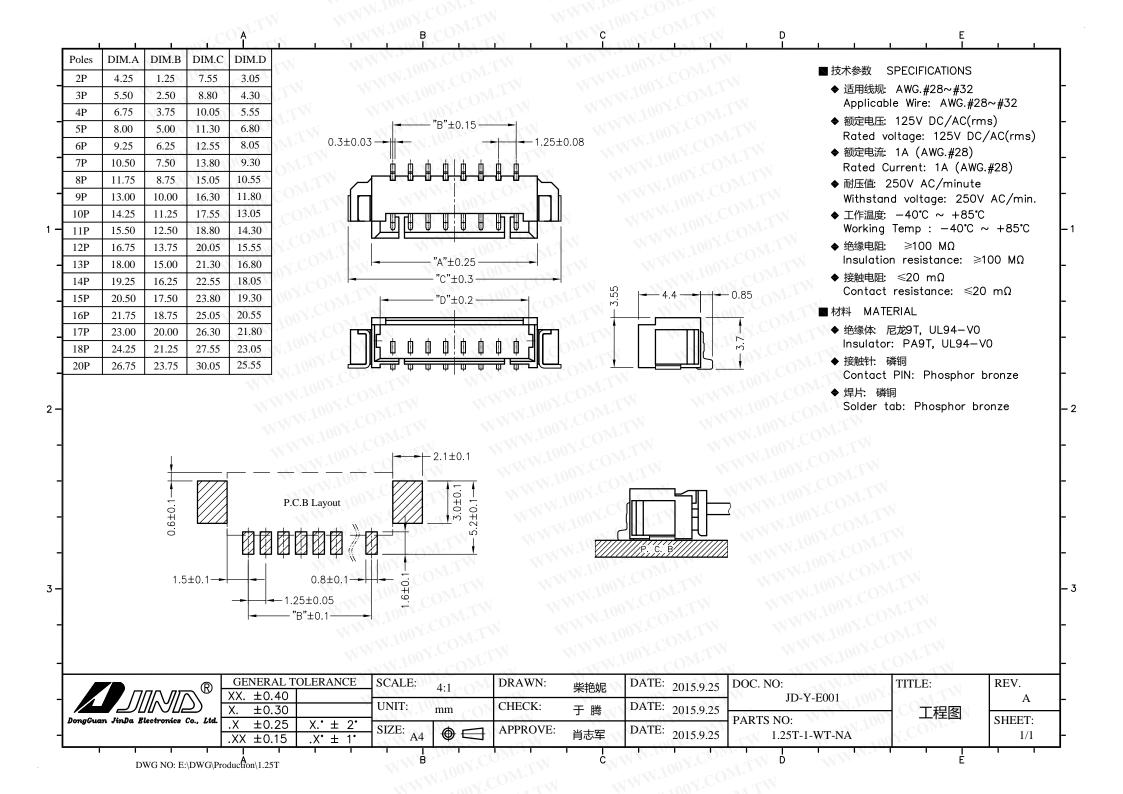














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DONGGUAN JINDA ELECTRONICS CO.,LTD

5#,ROAD NORTH,PUXINHU COUNTRY,TANGXIA TOWN,DONGGUAN,GUANGDONG CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as: PA66 Halogen Free(in

Chinese as PA66无卤)

SGS Job No. : CP15-051465 - SZ

Date of Sample Received: 08 Sep 2015

Testing Period: 08 Sep 2015 - 15 Sep 2015

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).

Conclusion: Based on the performed tests on submitted sample(s), the results of Lead,

Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs) comply with the limits as set by RoHS

Directive 2011/65/EU Annex II; recasting 2002/95/EC.

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

Merry Lv

Approved Signatory

Uerry



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Test Results:

Test Part Description:

Specimen No. SGS Sample ID Description

SN1 CAN15-156166.009 White plastic grains

Remarks:

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

(2) MDL = Method Detection Limit

(3) ND = Not Detected (< MDL)

(4) "-" = Not Regulated

RoHS Directive 2011/65/EU

Test Method: (1)With reference to IEC 62321-5:2013, determination of Cadmium by ICP-OES.

(2)With reference to IEC 62321-5:2013, determination of Lead by ICP-OES. (3)With reference to IEC 62321-4:2013, determination of Mercury by ICP-OES.

(4) With reference to IEC 62321:2008, determination of Hexavalent Chromium by Colorimetric

Method using UV-Vis.

(5) With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS.

Test Item(s)	<u>Limit</u>	<u>Unit</u>	MDL	<u>009</u>
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	2	ND
Mercury (Hg)	1,000	mg/kg	2	ND
Hexavalent Chromium (CrVI)	1,000	mg/kg	2	ND
Sum of PBBs	1,000	mg/kg	O ^M 5	ND
Monobromobiphenyl	- TAN V	mg/kg	5	ND
Dibromobiphenyl	A	mg/kg	5	ND
Tribromobiphenyl	7// //	mg/kg	5	ND
Tetrabromobiphenyl	- 11	mg/kg	5	ND
Pentabromobiphenyl	- 1	mg/kg	5	ND
Hexabromobiphenyl	-	mg/kg	5.0N	ND
Heptabromobiphenyl	-	mg/kg	5 0	ND
Octabromobiphenyl	- -<1	mg/kg	.1005	ND
Nonabromobiphenyl	· -	mg/kg	1.105	ND
Decabromobiphenyl	[W -	mg/kg	50	ND
Sum of PBDEs	1,000	mg/kg	5001	ND
Monobromodiphenyl ether	WT	mg/kg	5	ND

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or email: CN_Doccheck@sgs.com

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Test Report	No. CANEC15156166	609	Date: 1	6 Sep 2015	Page 3 of
Test Item(s)	Limit Limit	<u>Unit</u>	MDL	<u>009</u>	
Dibromodiphenyl ether	OY.COM.TW - W	mg/kg	5	ND	
Tribromodiphenyl ether	OOY.CO.TW - Y	mg/kg	00 5	ND	
Tetrabromodiphenyl ether	100Y.CONTENTY -	mg/kg	5	ND	
Pentabromodiphenyl ether	·IOV.COM	mg/kg	5/.0	ND	
Hexabromodiphenyl ether	N.100 COM.	mg/kg	5 C	ND	
Heptabromodiphenyl ether	W.100 1. CONL.1 1.	mg/kg	5	ND	
Octabromodiphenyl ether	W.100Y.	mg/kg	5	ND	
Nonabromodiphenyl ether	N 100Y. COM.TY	mg/kg	5 00	ND	
Decabromodiphenyl ether	WW. TOOY. CO.	mg/kg	5 100	ND	

Notes : (1) The maximum permissible limit is quoted from directive 2011/65/EU, Annex II.

Test Method: With reference to EN 14582: 2007, analysis was performed by Ion Chromatograph (IC). .100Y.COM.T

Test Item(s)	<u>Unit</u>	MDL 🕥	<u>009</u>	
Fluorine (F)	mg/kg	50	ND CONTRACTOR	
Chlorine (CI)	mg/kg	50	ND COMM	
Bromine (Br)	mg/kg	50	ND NO.	
lodine (I)	mg/kg	50	ND NO.	
Tetrabromobisphenol A (TBBP-A)				

Tetrabromobisphenol A (TBBP-A)

Test Method: With reference to US EPA Method 3540C:1996, analysis was performed by GC-MS&HPLC-MS. WWW.TOOX.COM

Test Item(s)	<u>Unit</u>	<u>MDL</u>	<u>009</u>
Tetrabromobisphenol A (TBBP-A)	mg/kg	10	ND

WWW.100Y.COM.TW WWW.100Y.COM.TV WWW.100Y.COM.T

Dimethyl Fumarate (DMF)					
Test Method: SGS In-house method(GZ	TC CHEM-TOP-()95), analy	vsis was p	performed by GC-N	MS.
Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>009</u>	
Dimethyl fumarate(DMF)	0.1	mg/kg	0.1	ND	
Conclusion				PASS	

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Notes:

(1) The maximum permissible limit is quoted from the document Commission Regulation (EU) No 412/2012 amending Annex XVII of REACH Regulation (EC) No 1907/2006 (previously restricted under Commission Decision 2012/48/EU)

Hexabromocyclododecane (HBCDD)

Test Method: With reference to IEC 62321:2008, analysis was performed by GC-MS.

Test Item(s)	<u>Unit</u>	MDL	<u>009</u>
Hexabromocyclododecane (HBCDD)	mg/kg	10	ND

PFOS (Perfluorooctane Sulfonates) and PFOA (Perfluorooctanoic Acid)

Test Method: With reference to US EPA Method 3550C: 2007, analysis was performed by HPLC-MS.

Test Item(s)	CAS NO.	<u>Unit</u>	MDL	009
Perfluorooctanoic Acid (PFOA)	335-67-1	mg/kg	10	ND
Perfluorooctane Sulfonates (PFOS) [^]	W 100Y. COM.TW	mg/kg	10	ND

Notes:

(1) For reference: commission regulation (EU) No 757/2010 amending regulation (EC) No 850/2004: For the purposes of this entry, Article 4(1) (b) shall apply to concentrations of PFOS equal to or below 10 mg/kg (0,001 % by weight) when it occurs in substances or in preparations.

For the purposes of this entry, Article 4(1) (b) shall apply to concentrations of PFOS in semi-finished products or articles, or parts thereof, if the concentration of PFOS is lower than 0,1 % by weight calculated with reference to the mass of structurally or micro-structurally distinct parts that contain PFOS or, for textiles or other coated materials, if the amount of PFOS is lower than 1µg /m2 of the coated material.

(2)[^]: PFOS refer to Perfluoroctanesulfonic acid and its derivatives including Perfluoroctanesulfonic acid, Perfluoroctane sulfonamide, N-Methylperfluoroctane sulfonamide, N-Ethylperfluoroctane sulfonamidoethanol and N-Ethylperfluoroctane sulfonamidoethanol.

Polycyclic Aromatic Hydrocarbons (PAHs)

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

 Test Item(s)
 CAS NO.
 Unit
 MDL
 009

 Naphthalene(NAP)
 91-20-3
 mg/kg
 0.1
 ND



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Test Report	No. CANEC1515616609	Date: 16 Sep 2015	Pa
Test Item(s)	CAS NO.	Unit Unit	ME
Acenaphthylene(ANY)	208-96-8	mg/kg	0.1
Acenaphthene(ANA)	83-32-9	mg/kg	0.1
Fluorene(FLU)	86-73-7	mg/kg	0.1
Phenanthrene(PHE)	85-01-8	mg/kg	0.1
Anthracene(ANT)	120-12-7	mg/kg	0.1
Fluoranthene(FLT)	206-44-0	mg/kg	0.1
Pyrene(PYR)	129-00-0	mg/kg	0.1
Benzo(a)anthracene(BaA)	56-55-3	mg/kg	0.1
Chrysene(CHR)	218-01-9	mg/kg	0.1
Benzo(b)fluoranthene(BbF)	205-99-2	mg/kg	0.1
Benzo(j)fluoranthene(BjF)	205-82-3	mg/kg	(V _{0.1}
Benzo(k)fluoranthene(BkF)	207-08-9	mg/kg	0.1
Benzo(a)pyrene(BaP)	50-32-8	mg/kg	0.1
Benzo(e)pyrene(BeP)	192-97-2	mg/kg	0.1
Indeno(1,2,3-c,d)pyrene(IPY)	193-39-5	mg/kg	0.1
Dibenzo(a,h)anthracene(DBA)	53-70-3	mg/kg	0.1
Benzo(g,h,i)perylene(BPE)	191-24-2	mg/kg	0.1
Sum of 7 PAHS Acenaphthylene	. Acenaphthene.	mg/kg	
Fluorene, Phenanthrene, Pyrene		WWW.soox	
Fluoranthene			
Sum of 18 PAHs	WWW.100 r. COM.1	mg/kg	J C



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

Parameter	Category 1	Categ	ory 2	Category	3
ON.TW WWW. COM.TW WWW. COM.TW WWW.	Material indented to be put in the mouth or toys with intended skin contact (longer than 30 s).	category 1 with foreseeable contact to skin for longer than 30 s Materials not fallir category 1 or 2 with contact to skin for longer than 30 s		Materials not falling category 1 or 2 with contact to skin for le (short-term skin con	foreseeabless than 30
	WWW.100X.COM	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	W.100 < 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	TW < 1
Benzo(k)fluoranthene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	^{1,1} < 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	ON < 1N
Benzo(g,h,i)perylene mg/kg	M.TW< 0.2	< 0.2	< 0.5	< 0.5	CO < 1
Indeno(I,2,3-cd)pyrene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	y.C 21
Acenaphthylene, Acenaphthene, fluorene,phenanthrene, pyrene, anthracene, fluoranthene, mg/kg	< 1 Sum	< 5 Sum	< 10 Sum	< 20 Sum	< 50 Sum
Naphthalene, mg/kg	<11 N	1/1/1/ <		< 10	V.100 J.
Sum of 18 PAHs	N.CO < 1, W	< 5	< 10	< 20	< 50

Phthalate

Test Method: With reference to EN14372: 2004. Analysis was performed by GC-MS.

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Test Report	No. CANEC1515616609	Date: 16 Sep 2015	Page	e 7 of 16
Test Item(s)	CAS NO.	<u>Unit</u>	<u>MDL</u>	<u>009</u>
Dibutyl Phthalate (DBP)	84-74-2	%(w/w)	0.003	ND
Benzylbutyl Phthalate (BBP)	85-68-7	%(w/w)	0.003	ND
Bis(2-ethylhexyl) Phthalate (DEHP)	117-81-7	%(w/w)	0.003	ND
Diisononyl Phthalate (DINP)	28553-12-0 68515-48-0	%(w/w)	0.010	ND
Di-n-octyl Phthalate (DNOP)	117-84-0	%(w/w)	0.003	ND
Diisodecyl Phthalate (DIDP)	26761-40-0 68515-49-1	%(w/w)	0.010	ND
Dimethyl Phthalate (DMP)	131-11-3	%(w/w)	0.003	ND
Diethyl Phthalate (DEP)	84-66-2	%(w/w)	0.003	ND
Diisobutyl Phthalate (DIBP)	84-69-5	%(w/w)	0.003	ND
Dinonyl Phthalate (DNP)	84-76-4	%(w/w)	0.003	ND
Diisooctyl Phthalate (DIOP)	27554-26-3	%(w/w)	0.010	ND
Dipropyl Phthalate (DPrP)	131-16-8	%(w/w)	0.003	ND
Dicyclohexyl Phthalate (DCHP)	84-61-7	%(w/w)	0.003	ND
Di-n-pentyl Phthalate (DnPP)	131-18-0	%(w/w)	0.003	ND
Dibenzyl Phthalate (DBzP)	523-31-9	%(w/w)	0.003	ND ND
Diphenyl Phthalate (DPhP)	84-62-8	%(w/w)	0.003	ND ND
Di-n-hexyl Phthalate (DnHP)	84-75-3	%(w/w)	0.003	ND

Notes:

- (1)DBP,BBP,DEHP Reference information: Entry 51 of Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006 (previously restricted under Directive 2005/84/EC):
- i) Shall not be used as substances or in mixtures, in concentrations greater than 0.1 % by weight of the plasticised material, in toys and childcare articles.
- ii) Toys and childcare articles containing these phthalates in a concentration greater than 0.1 % by weight of the plasticised material shall not be placed on the market.

Please refer to Regulation (EC) No 552/2009 to get more detail information

- (2)DINP, DNOP, DIDP Reference information: Entry 52 of Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006 (previously restricted under Directive 2005/84/EC).
- i) Shall not be used as substances or in mixtures, in concentrations greater than 0.1 % by weight of the plasticised material, in toys and childcare articles which can be placed in the mouth by children.
- ii) Such toys and childcare articles containing these phthalates in a concentration greater than 0.1 % by weight of the plasticised material shall not be placed on the market.

Please refer to Regulation (EC) No 552/2009 to get more detail information



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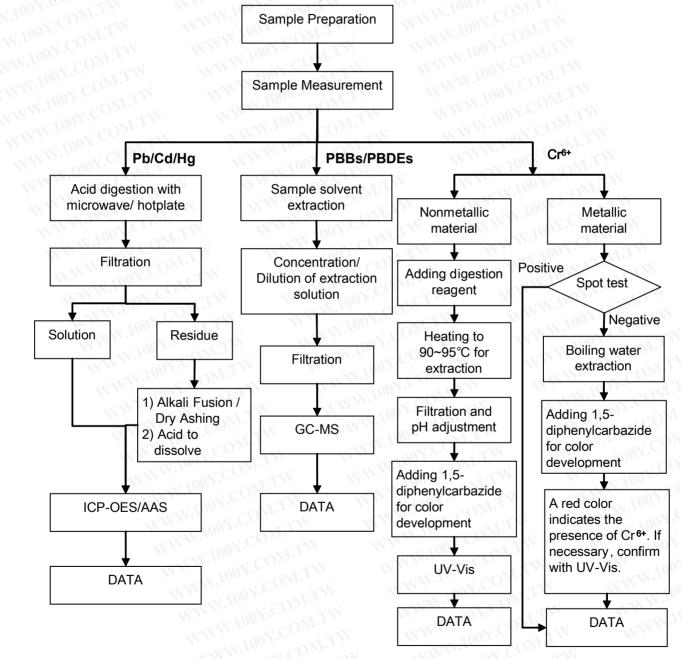
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RoHS Testing Flow Chart

- 1) Name of the person who made testing: Bruce Xiao / Sunny Hu
- 2) Name of the person in charge of testing: Bella Wang / Cutey Yu
- 3) 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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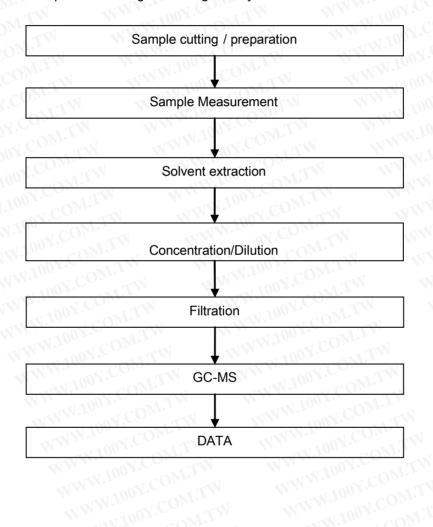
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HBCDD Testing Flow Chart

- 1) Name of the person who made testing: Sunny Hu
- 2) Name of the person in charge of testing: Cutey Yu





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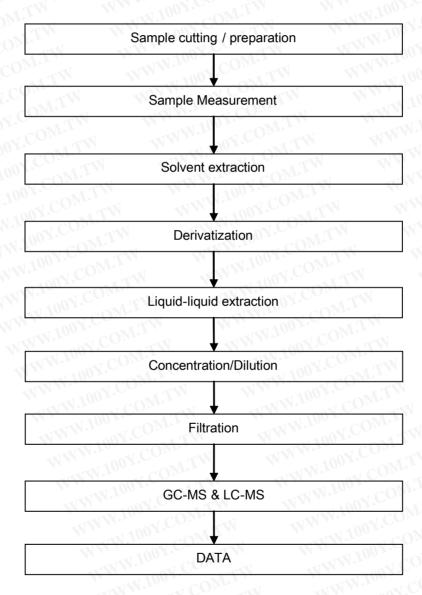
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TBBP-A Testing Flow Chart

- 1) Name of the person who made testing: Erin Guo
- 2) Name of the person in charge of testing: Cutey Yu





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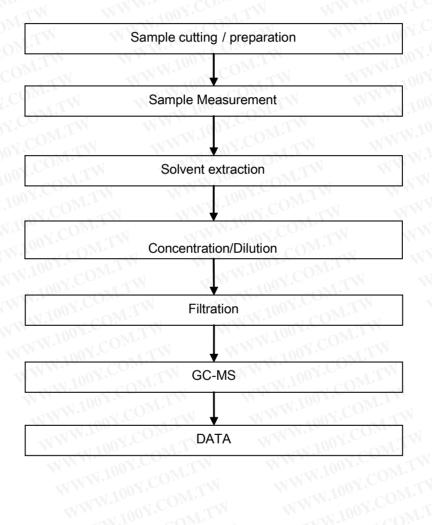
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PAHs Testing Flow Chart

- 1) Name of the person who made testing: Sunny Hu
- 2) Name of the person in charge of testing: Cutey Yu



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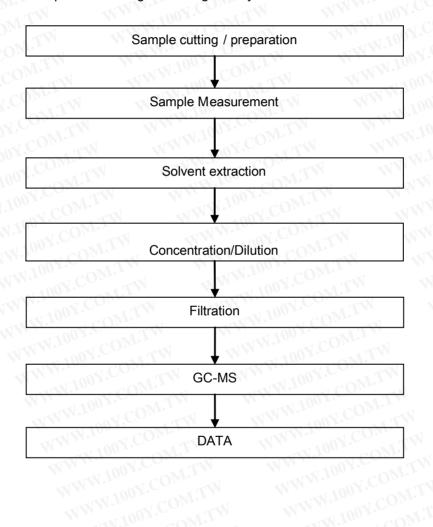
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Dimethyl Fumarate Testing Flow Chart

- 1) Name of the person who made testing: Sunny Hu
- 2) Name of the person in charge of testing: Cutey Yu





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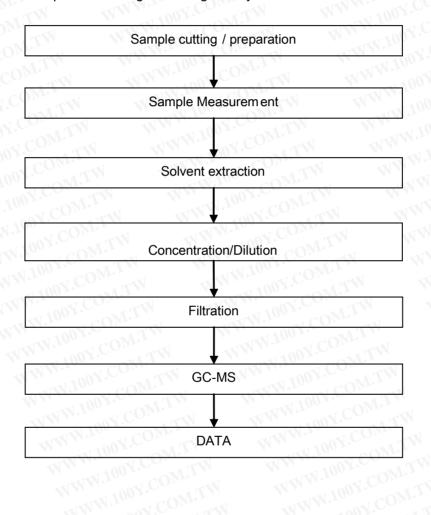
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Phthalates Testing Flow Chart

- 1) Name of the person who made testing: Sunny Hu
- 2) Name of the person in charge of testing: Cutey Yu





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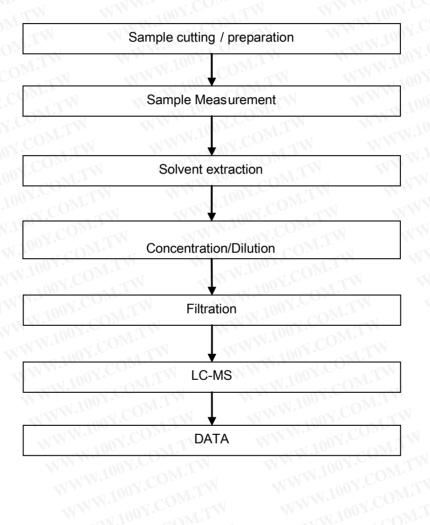
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PFOA / PFOS Testing Flow Chart

- 1) Name of the person who made testing: Zhihong Wang
- 2) Name of the person in charge of testing: Cutey Yu





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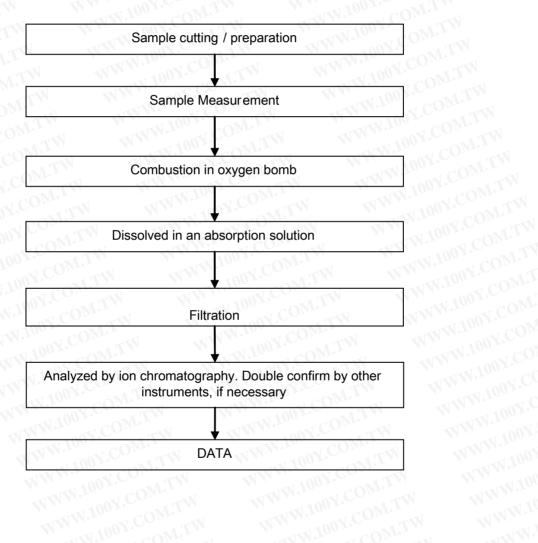
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Halogen Testing Flow Chart

- 1) Name of the person who made testing: Hanming Xiao
- 2) Name of the person in charge of testing: Bella Wang





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Sample photo:

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DONGGUAN JINDA ELECTRONICS CO.,LTD

5#,ROAD NORTH,PUXINHU COUNTRY,TANGXIA TOWN,DONGGUAN,GUANGDONG **CHINA**

The following sample(s) was/were submitted and identified on behalf of the clients as: PA46

SGS Job No.: CP15-051465 - SZ

Date of Sample Received: 08 Sep 2015

Testing Period: 08 Sep 2015 - 15 Sep 2015

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).

Conclusion: Based on the performed tests on submitted sample(s), the results of Lead,

Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs) comply with the limits as set by RoHS

Directive 2011/65/EU Annex II; recasting 2002/95/EC.

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

Merry Lv

Approved Signatory

Uerry



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Test Results:

Test Part Description:

Specimen No. SGS Sample ID Description

SN1 CAN15-156166.001 Beige plastic grains

Remarks:

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

(2) MDL = Method Detection Limit

(3) ND = Not Detected (< MDL)

(4) "-" = Not Regulated

RoHS Directive 2011/65/EU

Test Method: (1)With reference to IEC 62321-5:2013, determination of Cadmium by ICP-OES.

(2)With reference to IEC 62321-5:2013, determination of Lead by ICP-OES. (3)With reference to IEC 62321-4:2013, determination of Mercury by ICP-OES.

(4)With reference to IEC 62321:2008, determination of Hexavalent Chromium by Colorimetric

Method using UV-Vis.

(5) With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by 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)	1,000	mg/kg	2	15
Mercury (Hg)	1,000	mg/kg	2	ND
Hexavalent Chromium (CrVI)	1,000	mg/kg	2	ND
Sum of PBBs	1,000	mg/kg	0 5	ND
Monobromobiphenyl	-	mg/kg	5	ND
Dibromobiphenyl	JA A.	mg/kg	5	ND
Tribromobiphenyl	7///	mg/kg	5	ND
Tetrabromobiphenyl	- 111	mg/kg	5	ND
Pentabromobiphenyl	- W	mg/kg	5	ND
Hexabromobiphenyl	<u>-</u>	mg/kg	5.0	ND
Heptabromobiphenyl	-	mg/kg	5 00	ND
Octabromobiphenyl	_	mg/kg	.1005	ND
Nonabromobiphenyl	_	mg/kg	105	ND
Decabromobiphenyl	W -	mg/kg	50	ND
Sum of PBDEs	1,000	mg/kg	5001	ND
Monobromodiphenyl ether	W	mg/kg	5	ND



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Test Report	No. CANEC15156166	601	Date: 16	Sep 2015	Page 3 of 15
Test Item(s)	Limit Limit	<u>Unit</u>	MDL	<u>001</u>	
Dibromodiphenyl ether	Y.COM.TW - V	mg/kg	5 M	ND	
Tribromodiphenyl ether	10Y.CO.	mg/kg	00 5 M	ND	
Tetrabromodiphenyl ether	ON COMPANY -	mg/kg	100 5 CO	ND	
Pentabromodiphenyl ether	TOO N.COM.	mg/kg	5/.CO	ND	
Hexabromodiphenyl ether	The CONT.	mg/kg	5 CC	ND	
Heptabromodiphenyl ether	N:1001. COM:11	mg/kg	5	ND	
Octabromodiphenyl ether	W.100Y. COM.TW	mg/kg	W.5001.	ND	
Nonabromodiphenyl ether	TI 100Y. COM.TY	mg/kg	5.007.	ND	
Decabromodiphenyl ether	MAN. TOOX.CO. T.T.W.	mg/kg	5 100	ND	

Notes :

(1) The maximum permissible limit is quoted from directive 2011/65/EU, Annex II.

Tetrabromobisphenol A (TBBP-A)

Test Method: With reference to US EPA Method 3540C:1996, analysis was performed by GC-MS&HPLC-MS.

Test Item(s)	<u>Unit</u>	MDL \	<u>001</u>
Tetrabromobisphenol A (TBBP-A)	mg/kg	10	ND

<u>Dimethyl Fumarate (DMF)</u>

Test Method: SGS In-house method(GZTC CHEM-TOP-095), analysis was performed by GC-MS. WWW.100Y.COM.TW WWW.100Y.COM.TW

WW.100 COM.		CON.	TV	
Test Item(s)	<u>Limit</u>	<u>Unit</u>	MDL	<u>001</u>
Dimethyl fumarate(DMF)	0.1	mg/kg	0.1	ND
Conclusion				PASS
Notes:				

Notes:

(1) The maximum permissible limit is quoted from the document Commission Regulation (EU) No 412/2012 amending Annex XVII of REACH Regulation (EC) No 1907/2006 (previously restricted under WWW.100Y.COM.TW Commission Decision 2012/48/EU)

Hexabromocyclododecane (HBCDD)

Test Method: With reference to IEC 62321:2008, analysis was performed by GC-MS.



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Test Item(s) Unit MDL 001
Hexabromocyclododecane (HBCDD) mg/kg 10 ND

PFOS (Perfluorooctane Sulfonates) and PFOA (Perfluorooctanoic Acid)

Test Method: With reference to US EPA Method 3550C: 2007, analysis was performed by HPLC-MS.

Test Item(s)	CAS NO.	<u>Unit</u> <u>MDL</u>	<u>001</u>
Perfluorooctanoic Acid (PFOA)	335-67-1	mg/kg 10	ND
Perfluorooctane Sulfonates (PFOS) [^]	COM.	mg/kg 10	ND

Notes

(1) For reference: commission regulation (EU) No 757/2010 amending regulation (EC) No 850/2004: For the purposes of this entry, Article 4(1) (b) shall apply to concentrations of PFOS equal to or below 10 mg/kg (0,001 % by weight) when it occurs in substances or in preparations.

For the purposes of this entry, Article 4(1) (b) shall apply to concentrations of PFOS in semi-finished products or articles, or parts thereof, if the concentration of PFOS is lower than 0,1 % by weight calculated with reference to the mass of structurally or micro-structurally distinct parts that contain PFOS or, for textiles or other coated materials, if the amount of PFOS is lower than $1\mu g$ /m2 of the coated material.

(2)^: PFOS refer to Perfluoroctanesulfonic acid and its derivatives including Perfluoroctanesulfonic acid, Perfluoroctane sulfonamide, N-Methylperfluoroctane sulfonamide, N-Ethylperfluoroctane sulfonamidoethanol and N-Ethylperfluoroctane sulfonamidoethanol.

Polycyclic Aromatic Hydrocarbons (PAHs)

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

Test Item(s)	CAS NO.	<u>Unit</u>	MDL	001
Naphthalene(NAP)	91-20-3	mg/kg	0.1	ND
Acenaphthylene(ANY)	208-96-8	mg/kg 🕥	0.1	ND
Acenaphthene(ANA)	83-32-9	mg/kg	0.1	ND
Fluorene(FLU)	86-73-7	mg/kg	0.1	ND
Phenanthrene(PHE)	85-01-8	mg/kg	0.1	ND
Anthracene(ANT)	120-12-7	mg/kg	0.1	ND
Fluoranthene(FLT)	206-44-0	mg/kg	0.1	ND
Pyrene(PYR)	129-00-0	mg/kg	0.1	ND
Benzo(a)anthracene(BaA)	56-55-3	mg/kg	0.1	ND
Chrysene(CHR)	218-01-9	mg/kg	0.1	ND



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Test Report	No. CANEC1515616601	Date: 16 Sep 2015	Page	5 0
Test Item(s)	CAS N	O. Unit	MDL	
Benzo(b)fluoranthene(BbF)	205-99-	2 mg/kg	0.1	
Benzo(j)fluoranthene(BjF)	205-82-	3 mg/kg	0.1	
Benzo(k)fluoranthene(BkF)	207-08-	9 mg/kg	0.1	
Benzo(a)pyrene(BaP)	50-32-8	mg/kg	0.1	
Benzo(e)pyrene(BeP)	192-97-	2 mg/kg	0.1	
Indeno(1,2,3-c,d)pyrene(IPY)	193-39-	5 mg/kg	0.1	
Dibenzo(a,h)anthracene(DBA)	53-70-3	mg/kg	0.1	
Benzo(g,h,i)perylene(BPE)	191-24-	2 mg/kg	0.1	
Sum of 7 PAHS Acenaphthylene	. Acenaphthene,	mg/kg	_	
Fluorene, Phenanthrene, Pyrene	, Anthracene,			
Fluoranthene				
Sum of 18 PAHs	COM.	mg/kg	- TW-	



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

Parameter	Category 1	Categ	ory 2	Category 3	
X.COM.TW WWW.	Material indented 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 under category 1 or 2 with foreseeable contact to skin for less than 30 s (short-term skin contact).	
	MMM.100x.COM	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	W.100 < 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	TW < 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	VI ₂
Benzo(g,h,i)perylene mg/kg	M.TV < 0.2	< 0.2	< 0.5	< 0.5	CO. <1
Indeno(I,2,3-cd)pyrene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	v.c<1
Acenaphthylene, Acenaphthene, fluorene,phenanthrene, pyrene, anthracene, fluoranthene, mg/kg	< 1 Sum	< 5 Sum	< 10 Sum	< 20 Sum	< 50 Sum
Naphthalene, mg/kg	<1	1/1/1/ <		< 10	V.100 1.
Sum of 18 PAHs	NY.CU <1, ON	< 5	< 10	< 20	< 50

Phthalate

Test Method: With reference to EN14372: 2004. Analysis was performed by GC-MS.

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Test Report No. CA	NEC1515616601 Date: 1	16 Sep 2015	Page	7 of 15
Test Item(s)	CAS NO.	<u>Unit</u>	<u>MDL</u>	<u>00′</u>
Dibutyl Phthalate (DBP)	84-74-2	%(w/w)	0.003	ND
Benzylbutyl Phthalate (BBP)	85-68-7	%(w/w)	0.003	ND
Bis(2-ethylhexyl) Phthalate (DEHP)	117-81-7	%(w/w)	0.003	ND
Diisononyl Phthalate (DINP)	28553-12-0 / 68515-48-0	%(w/w)	0.010	ND
Di-n-octyl Phthalate (DNOP)	117-84-0	%(w/w)	0.003	ND
Diisodecyl Phthalate (DIDP)	26761-40-0 / 68515-49-1	%(w/w)	0.010	ND
Dimethyl Phthalate (DMP)	131-11-3	%(w/w)	0.003	ND
Diethyl Phthalate (DEP)	84-66-2	%(w/w)	0.003	ND
Diisobutyl Phthalate (DIBP)	84-69-5	%(w/w)	0.003	ND
Dinonyl Phthalate (DNP)	84-76-4	%(w/w)	0.003	ND
Diisooctyl Phthalate (DIOP)	27554-26-3	%(w/w)	0.010	ND
Dipropyl Phthalate (DPrP)	131-16-8	%(w/w)	0.003	ND
Dicyclohexyl Phthalate (DCHP)	84-61-7	%(w/w)	0.003	ND
Di-n-pentyl Phthalate (DnPP)	131-18-0	%(w/w)	0.003	ND
Dibenzyl Phthalate (DBzP)	523-31-9	%(w/w)	0.003	ND
Diphenyl Phthalate (DPhP)	84-62-8	%(w/w)	0.003	ND
Di-n-hexyl Phthalate (DnHP)	84-75-3	%(w/w)	0.003	ND

- (1)DBP,BBP,DEHP Reference information: Entry 51 of Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006 (previously restricted under Directive 2005/84/EC):
- i) Shall not be used as substances or in mixtures, in concentrations greater than 0.1 % by weight of the plasticised material, in toys and childcare articles.
- ii) Toys and childcare articles containing these phthalates in a concentration greater than 0.1 % by weight of the plasticised material shall not be placed on the market.

Please refer to Regulation (EC) No 552/2009 to get more detail information

- (2) DINP, DNOP, DIDP Reference information: Entry 52 of Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006 (previously restricted under Directive 2005/84/EC).
- i) Shall not be used as substances or in mixtures, in concentrations greater than 0.1 % by weight of the plasticised material, in toys and childcare articles which can be placed in the mouth by children.
- ii) Such toys and childcare articles containing these phthalates in a concentration greater than 0.1 % by weight of the plasticised material shall not be placed on the market.

Please refer to Regulation (EC) No 552/2009 to get more detail information



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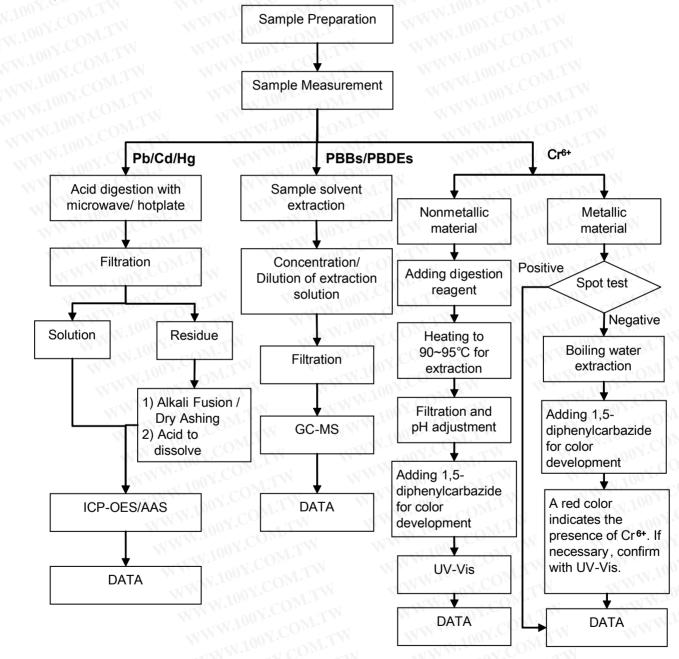
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Date: 16 Sep 2015

ATTACHMENTS

RoHS Testing Flow Chart

- 1) Name of the person who made testing: Bruce Xiao / Sunny Hu
- 2) Name of the person in charge of testing: Bella Wang / Cutey Yu
- 3) 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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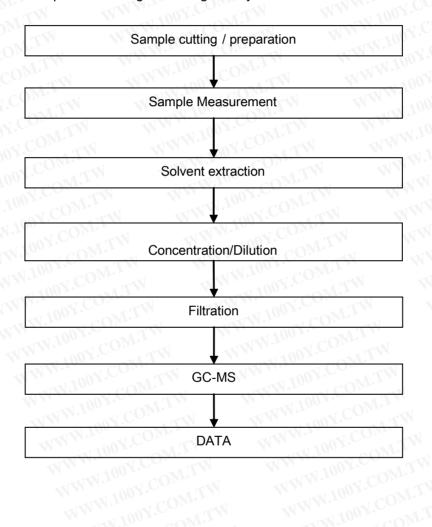
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Date: 16 Sep 2015

ATTACHMENTS

HBCDD Testing Flow Chart

- 1) Name of the person who made testing: Sunny Hu
- 2) Name of the person in charge of testing: Cutey Yu



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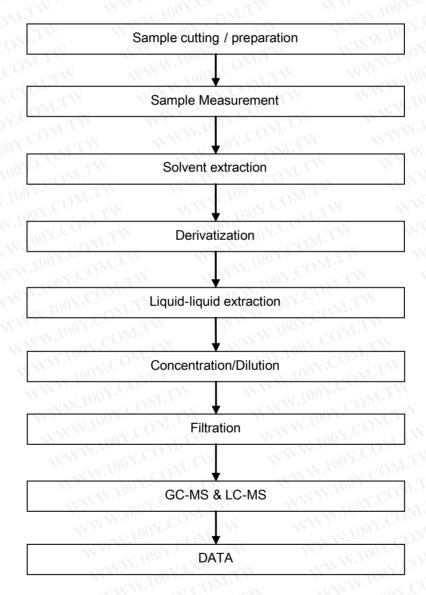
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TBBP-A Testing Flow Chart

- 1) Name of the person who made testing: Erin Guo
- 2) Name of the person in charge of testing: Cutey Yu





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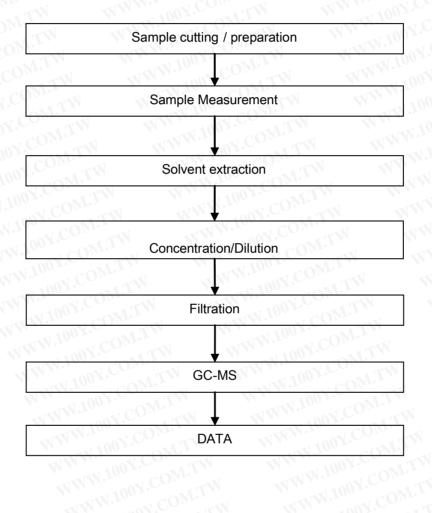
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Date: 16 Sep 2015

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PAHs Testing Flow Chart

- 1) Name of the person who made testing: Sunny Hu
- 2) Name of the person in charge of testing: Cutey Yu





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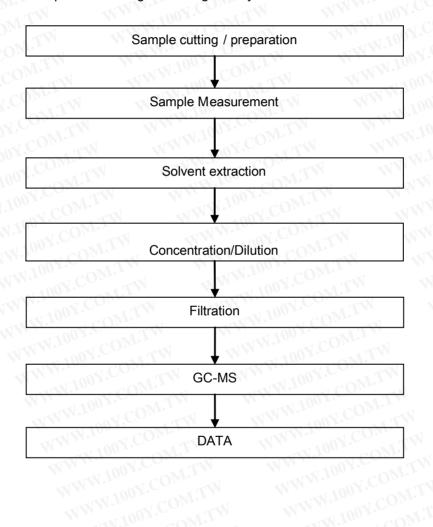
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Date: 16 Sep 2015

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Dimethyl Fumarate Testing Flow Chart

- 1) Name of the person who made testing: Sunny Hu
- 2) Name of the person in charge of testing: Cutey Yu



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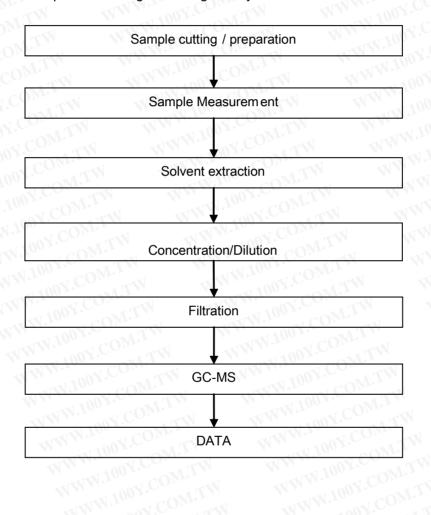
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Date: 16 Sep 2015

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Phthalates Testing Flow Chart

- 1) Name of the person who made testing: Sunny Hu
- 2) Name of the person in charge of testing: Cutey Yu





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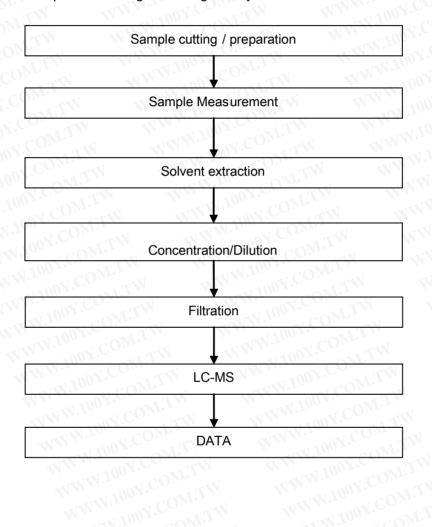
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Date: 16 Sep 2015

ATTACHMENTS

PFOA / PFOS Testing Flow Chart

- 1) Name of the person who made testing: Zhihong Wang
- 2) Name of the person in charge of testing: Cutey Yu





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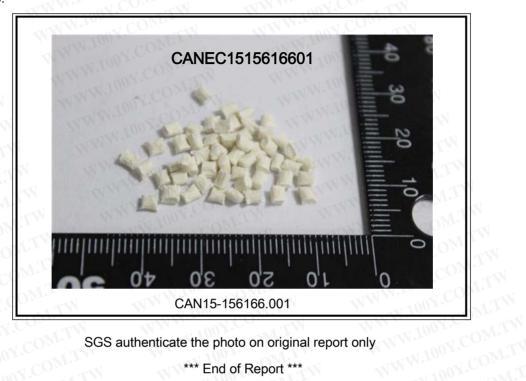
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Date: 16 Sep 2015

Sample photo:

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Test Report No. CANEC1515616603 Date: 16 Sep 2015 Page 1 of 15

DONGGUAN JINDA ELECTRONICS CO.,LTD

5#,ROAD NORTH,PUXINHU COUNTRY,TANGXIA TOWN,DONGGUAN,GUANGDONG CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as: PA9T

SGS Job No. : CP15-051465 - SZ

Date of Sample Received: 08 Sep 2015

Testing Period: 08 Sep 2015 - 15 Sep 2015

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).

Conclusion: Based on the performed tests on submitted sample(s), the results of Lead,

Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs) comply with the limits as set by RoHS

Directive 2011/65/EU Annex II; recasting 2002/95/EC.

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

Merry Lv

Approved Signatory

Uerry



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Test Report No. CANEC1515616603 Date: 16 Sep 2015 Page 2 of 15

Test Results:

Test Part Description:

Specimen No. SGS Sample ID Description

SN1 CAN15-156166.003 Beige plastic grains

Remarks:

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

(2) MDL = Method Detection Limit

(3) ND = Not Detected (< MDL)

(4) "-" = Not Regulated

RoHS Directive 2011/65/EU

Test Method: (1)With reference to IEC 62321-5:2013, determination of Cadmium by ICP-OES.

(2)With reference to IEC 62321-5:2013, determination of Lead by ICP-OES. (3)With reference to IEC 62321-4:2013, determination of Mercury by ICP-OES.

(4)With reference to IEC 62321:2008, determination of Hexavalent Chromium by Colorimetric

Method using UV-Vis.

(5) With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS.

Test Item(s)	<u>Limit</u>	<u>Unit</u>	MDL	<u>003</u>	
Cadmium (Cd)	100	mg/kg	2	ND	
Lead (Pb)	1,000	mg/kg	2	6	
Mercury (Hg)	1,000	mg/kg	2	ND	
Hexavalent Chromium (CrVI)	1,000	mg/kg	2	ND	
Sum of PBBs	1,000	mg/kg	0 5	ND	
Monobromobiphenyl	-	mg/kg	5	ND	
Dibromobiphenyl	17	mg/kg	5	ND	
Tribromobiphenyl	7/1/1/	mg/kg	5	ND	
Tetrabromobiphenyl	- 111	mg/kg	5	ND	
Pentabromobiphenyl	- W	mg/kg	5	ND	
Hexabromobiphenyl	-	mg/kg	5.0	ND	
Heptabromobiphenyl	-	mg/kg	5 COM	ND	
Octabromobiphenyl	-	mg/kg	5	ND	
Nonabromobiphenyl	N -	mg/kg	105	ND	
Decabromobiphenyl	W -	mg/kg	50	ND	
Sum of PBDEs	1,000	mg/kg	5,00	ND	
Monobromodiphenyl ether	W	mg/kg	5	ND	



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Test Report	No. CANEC15156166	603	Date: 16	Sep 2015	Page 3 of 15
Test Item(s)	Limit Limit	<u>Unit</u>	MDL	<u>003</u>	
Dibromodiphenyl ether	OY.COM.TW - W	mg/kg	5	ND	
Tribromodiphenyl ether	OOY.CO.T.Y	mg/kg	00 ¹ 5	ND	
Tetrabromodiphenyl ether	ANY COM TW	mg/kg	100 5 CO	ND	
Pentabromodiphenyl ether	·IOON·COM·	mg/kg	57.CO	ND	
Hexabromodiphenyl ether	N. TOW COM. T.	mg/kg	5 CC	ND	
Heptabromodiphenyl ether	W.1001. COM.11	mg/kg	5	ND	
Octabromodiphenyl ether	TW.100Y.	mg/kg	V.5	ND	
Nonabromodiphenyl ether	100Y. COM.TY	mg/kg	5.00	ND	
Decabromodiphenyl ether	WW. 100Y.CO.	mg/kg	5 100	ND	

Notes:

(1) The maximum permissible limit is quoted from directive 2011/65/EU, Annex II.

Tetrabromobisphenol A (TBBP-A)

Test Method: With reference to US EPA Method 3540C:1996, analysis was performed by GC-MS&HPLC-MS.

Test Item(s)	<u>Unit</u>	MDL <	<u>003</u>
Tetrabromobisphenol A (TBBP-A)	mg/kg	10	ND

Dimethyl Fumarate (DMF)

Test Method: SGS In-house method(GZTC CHEM-TOP-095), analysis was performed by GC-MS. WWW.100Y.COM.TW WWW.100Y.COM.TW

WW.100 COM.		ov.COM	TW	
Test Item(s)	<u>Limit</u>	<u>Unit</u>	MDL	<u>003</u>
Dimethyl fumarate(DMF)	0.1	mg/kg	0.1	ND
Conclusion				PASS
Notes:				

Notes:

(1) The maximum permissible limit is quoted from the document Commission Regulation (EU) No 412/2012 amending Annex XVII of REACH Regulation (EC) No 1907/2006 (previously restricted under WWW.100Y.COM.TW Commission Decision 2012/48/EU)

Hexabromocyclododecane (HBCDD)

Test Method: With reference to IEC 62321:2008, analysis was performed by GC-MS.



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Test Item(s) Unit MDL 003
Hexabromocyclododecane (HBCDD) mg/kg 10 ND

PFOS (Perfluorooctane Sulfonates) and PFOA (Perfluorooctanoic Acid)

Test Method: With reference to US EPA Method 3550C: 2007, analysis was performed by HPLC-MS.

Test Item(s)	CAS NO.	<u>Unit</u> <u>MDL</u>	<u>003</u>
Perfluorooctanoic Acid (PFOA)	335-67-1	mg/kg 10	ND
Perfluorooctane Sulfonates (PFOS)^	COM MMM.	mg/kg 10	ND

Notes:

(1) For reference: commission regulation (EU) No 757/2010 amending regulation (EC) No 850/2004: For the purposes of this entry, Article 4(1) (b) shall apply to concentrations of PFOS equal to or below 10 mg/kg (0,001 % by weight) when it occurs in substances or in preparations.

For the purposes of this entry, Article 4(1) (b) shall apply to concentrations of PFOS in semi-finished products or articles, or parts thereof, if the concentration of PFOS is lower than 0,1 % by weight calculated with reference to the mass of structurally or micro-structurally distinct parts that contain PFOS or, for textiles or other coated materials, if the amount of PFOS is lower than $1\mu g$ /m2 of the coated material.

(2)^: PFOS refer to Perfluoroctanesulfonic acid and its derivatives including Perfluoroctanesulfonic acid, Perfluoroctane sulfonamide, N-Methylperfluoroctane sulfonamide, N-Ethylperfluoroctane sulfonamidoethanol and N-Ethylperfluoroctane sulfonamidoethanol.

Polycyclic Aromatic Hydrocarbons (PAHs)

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

Test Item(s)	CAS NO.	<u>Unit</u>	MDL	003
Naphthalene(NAP)	91-20-3	mg/kg	0.1	ND
Acenaphthylene(ANY)	208-96-8	√ mg/kg √	0.1	ND
Acenaphthene(ANA)	83-32-9	mg/kg	0.1	ND
Fluorene(FLU)	86-73-7	mg/kg	0.1	ND
Phenanthrene(PHE)	85-01-8	mg/kg	0.1	ND
Anthracene(ANT)	120-12-7	mg/kg	0.1	ND
Fluoranthene(FLT)	206-44-0	mg/kg	0.1	ND
Pyrene(PYR)	129-00-0	mg/kg	0.1	ND
Benzo(a)anthracene(BaA)	56-55-3	mg/kg	0.1	ND
Chrysene(CHR)	218-01-9	mg/kg	0.1	ND



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Test Item(s)	<u>CAS N</u>	O. Unit	<u>MDL</u>	
Benzo(b)fluoranthene(BbF)	205-99-	2 mg/kg	0.1	
Benzo(j)fluoranthene(BjF)	205-82-	3 mg/kg	0.1	
Benzo(k)fluoranthene(BkF)	207-08-	9 mg/kg	0.1	
Benzo(a)pyrene(BaP)	50-32-8	mg/kg	0.1	
Benzo(e)pyrene(BeP)	192-97-	2 mg/kg	0.1	
Indeno(1,2,3-c,d)pyrene(IPY)	193-39-	5 mg/kg	0.1	
Dibenzo(a,h)anthracene(DBA)	53-70-3	mg/kg	0.1	
Benzo(g,h,i)perylene(BPE)	191-24-	2 mg/kg	0.1	
Sum of 7 PAHS Acenaphthylene.	Acenaphthene, -	mg/kg	-	
Fluorene, Phenanthrene, Pyrene	Anthracene,			
Fluoranthene				
Sum of 18 PAHs	- COM.	mg/kg	TW-	



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

Parameter	Category 1	Categ	ory 2	Category	3
OM.TW WWW. COM.TW WWW. COM.TW WW.	Material indented 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 under category 1 or 2 with foreseeabl contact to skin for less than 30 (short-term skin contact).	
	WWW.100X.COM	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	W.100 < 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	TW < 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	ON < 1N
Benzo(g,h,i)perylene mg/kg	M.TW< 0.2	< 0.2	< 0.5	< 0.5	CO <1
Indeno(I,2,3-cd)pyrene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	y.c<1
Acenaphthylene, Acenaphthene, fluorene,phenanthrene, pyrene, anthracene, fluoranthene, mg/kg	< 1 Sum	< 5 Sum	< 10 Sum	< 20 Sum	< 50 Sum
Naphthalene, mg/kg	<1	<		< 10	V.1007.
Sum of 18 PAHs	N.CO <1	< 5	< 10	< 20	< 50

Phthalate

Test Method: With reference to EN14372: 2004. Analysis was performed by GC-MS.

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Test Item(s)	CAS NO.	<u>Unit</u>	<u>MDL</u>	003
Dibutyl Phthalate (DBP)	84-74-2	%(w/w)	0.003	ND
Benzylbutyl Phthalate (BBP)	85-68-7	%(w/w)	0.003	ND
Bis(2-ethylhexyl) Phthalate (DEHP)	117-81-7	%(w/w)	0.003	ND
Diisononyl Phthalate (DINP)	28553-12-0 / 68515-48-0	%(w/w)	0.010	ND
Di-n-octyl Phthalate (DNOP)	117-84-0	%(w/w)	0.003	ND
Diisodecyl Phthalate (DIDP)	26761-40-0 / 68515-49-1	%(w/w)	0.010	ND
Dimethyl Phthalate (DMP)	131-11-3	%(w/w)	0.003	ND
Diethyl Phthalate (DEP)	84-66-2	%(w/w)	0.003	ND
Diisobutyl Phthalate (DIBP)	84-69-5	%(w/w)	0.003	ND
Dinonyl Phthalate (DNP)	84-76-4	%(w/w)	0.003	ND
Diisooctyl Phthalate (DIOP)	27554-26-3	%(w/w)	0.010	ND
Dipropyl Phthalate (DPrP)	131-16-8	%(w/w)	0.003	ND
Dicyclohexyl Phthalate (DCHP)	84-61-7	%(w/w)	0.003	ND
Di-n-pentyl Phthalate (DnPP)	131-18-0	%(w/w)	0.003	ND
Dibenzyl Phthalate (DBzP)	523-31-9	%(w/w)	0.003	ND
Diphenyl Phthalate (DPhP)	84-62-8	%(w/w)	0.003	ND
Di-n-hexyl Phthalate (DnHP)	84-75-3	%(w/w)	0.003	ND

- (1)DBP,BBP,DEHP Reference information: Entry 51 of Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006 (previously restricted under Directive 2005/84/EC):
- i) Shall not be used as substances or in mixtures, in concentrations greater than 0.1 % by weight of the plasticised material, in toys and childcare articles.
- ii) Toys and childcare articles containing these phthalates in a concentration greater than 0.1 % by weight of the plasticised material shall not be placed on the market.

Please refer to Regulation (EC) No 552/2009 to get more detail information

- (2) DINP, DNOP, DIDP Reference information: Entry 52 of Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006 (previously restricted under Directive 2005/84/EC).
- i) Shall not be used as substances or in mixtures, in concentrations greater than 0.1 % by weight of the plasticised material, in toys and childcare articles which can be placed in the mouth by children.
- ii) Such toys and childcare articles containing these phthalates in a concentration greater than 0.1 % by weight of the plasticised material shall not be placed on the market.

Please refer to Regulation (EC) No 552/2009 to get more detail information



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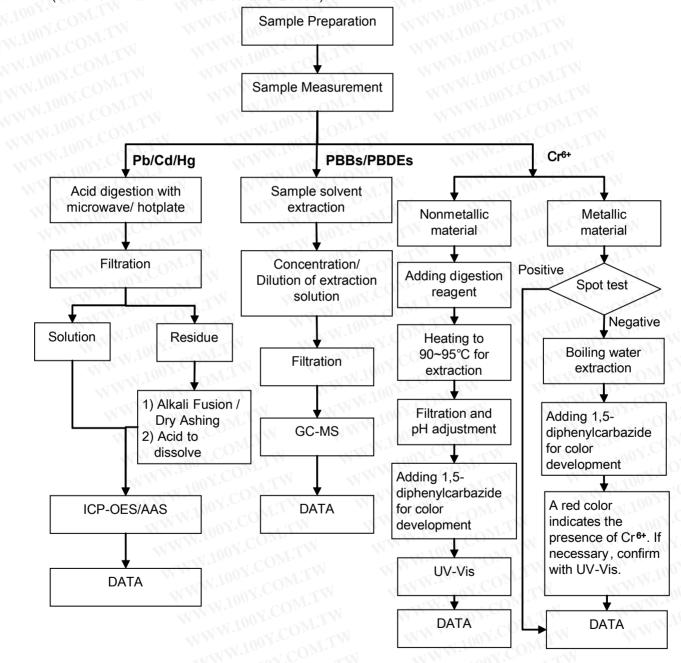
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Date: 16 Sep 2015

ATTACHMENTS

RoHS Testing Flow Chart

- 1) Name of the person who made testing: Bruce Xiao / Sunny Hu
- 2) Name of the person in charge of testing: Bella Wang / Cutey Yu
- 3) 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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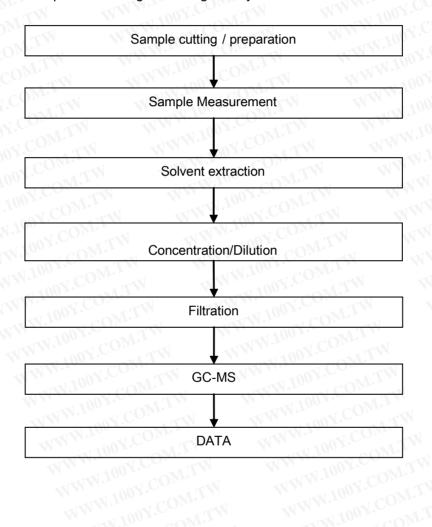
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Date: 16 Sep 2015

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HBCDD Testing Flow Chart

- 1) Name of the person who made testing: Sunny Hu
- 2) Name of the person in charge of testing: Cutey Yu





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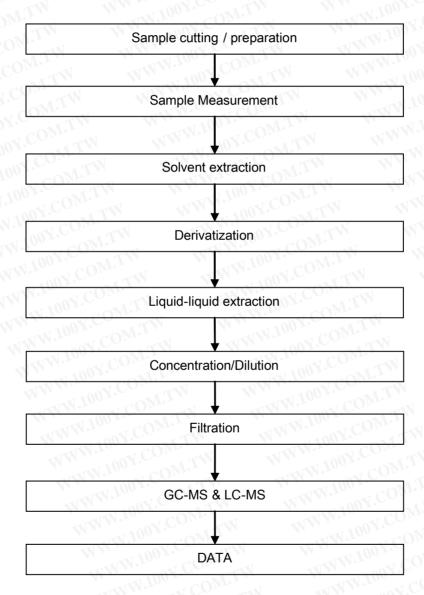
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TBBP-A Testing Flow Chart

- 1) Name of the person who made testing: Erin Guo
- 2) Name of the person in charge of testing: Cutey Yu





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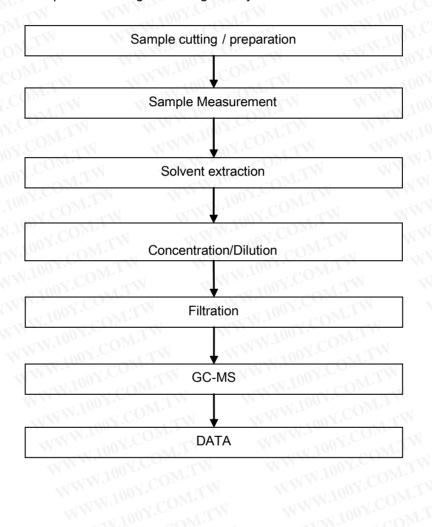
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Date: 16 Sep 2015

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PAHs Testing Flow Chart

- 1) Name of the person who made testing: Sunny Hu
- 2) Name of the person in charge of testing: Cutey Yu





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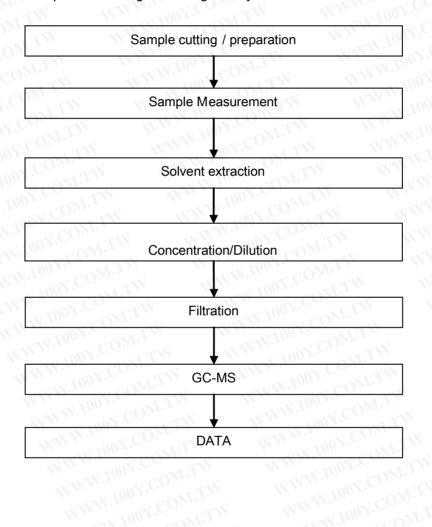
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Dimethyl Fumarate Testing Flow Chart

- 1) Name of the person who made testing: Sunny Hu
- 2) Name of the person in charge of testing: Cutey Yu





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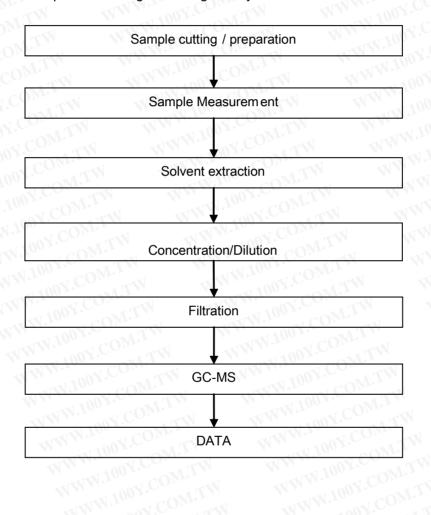
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Phthalates Testing Flow Chart

- 1) Name of the person who made testing: Sunny Hu
- 2) Name of the person in charge of testing: Cutey Yu





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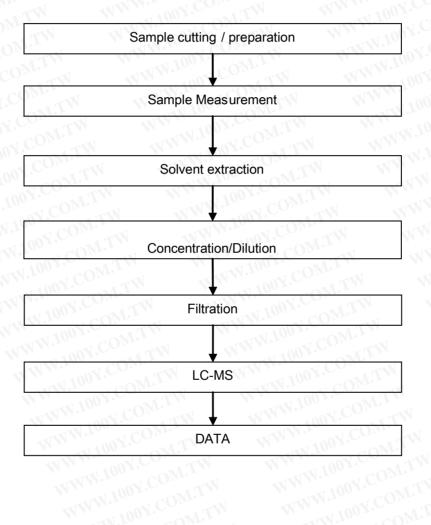
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Date: 16 Sep 2015

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PFOA / PFOS Testing Flow Chart

- 1) Name of the person who made testing: Zhihong Wang
- 2) Name of the person in charge of testing: Cutey Yu





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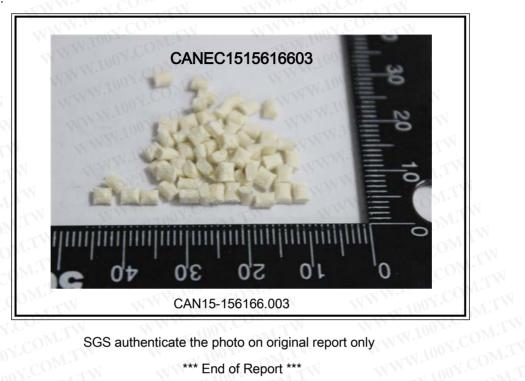
No. CANEC1515616603

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Date: 16 Sep 2015

Sample photo:

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Test Report No. CANEC1515616612 Date: 16 Sep 2015 Page 1 of 6

DONGGUAN JINDA ELECTRONICS CO.,LTD

5#,ROAD NORTH,PUXINHU COUNTRY,TANGXIA TOWN,DONGGUAN,GUANGDONG CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as: Phosphor copper electroplate tin terminal (in Chinese as 磷铜镀锡端子)

SGS Job No. : CP15-051465 - SZ

Date of Sample Received: 08 Sep 2015

Testing Period: 08 Sep 2015 - 15 Sep 2015

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).

Conclusion: Based on the performed tests on submitted sample(s), the results of Lead,

Mercury, Cadmium, Hexavalent chromium comply with the limits as set by RoHS

Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

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

Merry Lv

Approved Signatory

Uerry



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Attention: to check the authenticity of testing //nspection report & certificate, please contact us at telephone: (86-735) 8307 1443, or email: CN_Doccheck@sgs_com

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Test Results:

Test Part Description:

Specimen No. SGS Sample ID Description

SN1 CAN15-156166.012 Silvery plated metal

Remarks:

(1) 1 mg/kg = 1 ppm = 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: (1)With reference to IEC 62321-5:2013, determination of Cadmium by ICP-OES.

(2)With reference to IEC 62321-5:2013, determination of Lead by ICP-OES. (3)With reference to IEC 62321-4:2013, determination of Mercury by ICP-OES.

(4) With reference to IEC 62321:2008, determination of Hexavalent Chromium by spot test /

Colorimetric Method using UV-Vis.

Test Item(s)	<u>Limit</u>	<u>Unit</u>	MDL	<u>012</u>
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	2	15
Mercury (Hg)	1,000	mg/kg	2	ND
Hexavalent Chromium (CrVI)	MMJur	ON CO		Negative

Notes:

- (1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.
- (2) Spot-test:

Negative = Absence of CrVI coating, Positive = Presence of CrVI coating;

(The tested sample should be further verified by boiling-water-extraction method if the spot test result is Negative or cannot be confirmed.)

♦Boiling-water-extraction:

Negative = Absence of CrVI coating

Positive = Presence of CrVI coating; the detected concentration in boiling-water-extraction solution is equal or greater than 0.02 mg/kg with 50 cm2 sample surface area.

Information on storage conditions and production date of the tested sample is unavailable and thus results of Cr(VI) represent status of the sample at the time of testing.



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PFOA & PFOS (Perfluorooctanoic acid & Perfluorooctane sulfonates)

Test Method: With reference to US EPA Method 3550C:2007, analysis was performed by HPLC-MS.

Perfluorooctane Sulfonates - μg/m² 1.0 ND

(PFOS)[^]

Notes:

(1) For reference: commission regulation (EU) No 757/2010 amending regulation (EC) No 850/2004: For the purposes of this entry, Article 4(1) (b) shall apply to concentrations of PFOS equal to or below 10 mg/kg (0,001 % by weight) when it occurs in substances or in preparations.

For the purposes of this entry, Article 4(1) (b) shall apply to concentrations of PFOS in semi-finished products or articles, or parts thereof, if the concentration of PFOS is lower than 0,1 % by weight calculated with reference to the mass of structurally or micro-structurally distinct parts that contain PFOS or, for textiles or other coated materials, if the amount of PFOS is lower than $1\mu g$ /m2 of the coated material.

(2)[^]: PFOS refer to Perfluoroctanesulfonic acid and its derivatives including Perfluoroctanesulfonic acid, Perfluoroctane sulfonamide, N-Methylperfluoroctane sulfonamide, N-Ethylperfluoroctane sulfonamidoethanol and N-Ethylperfluoroctane sulfonamidoethanol.



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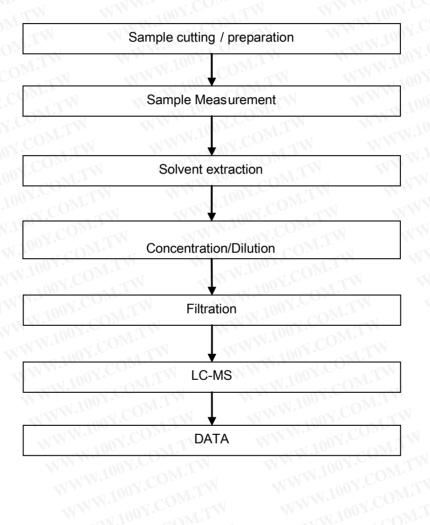
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Date: 16 Sep 2015

ATTACHMENTS

PFOA / PFOS Testing Flow Chart

- 1) Name of the person who made testing: Zhihong Wang
- 2) Name of the person in charge of testing: Cutey Yu





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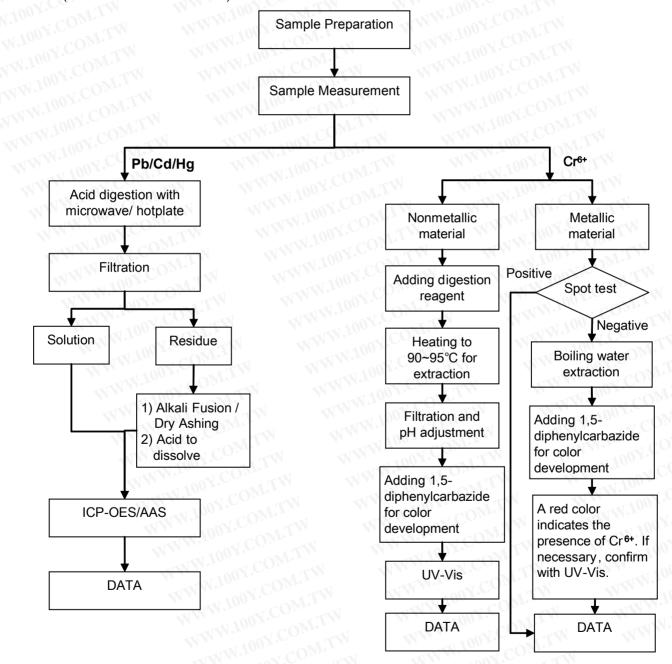
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Date: 16 Sep 2015

ATTACHMENTS

RoHS Testing Flow Chart

- 1) Name of the person who made testing: Bruce Xiao
- 2) Name of the person in charge of testing: Bella Wang
- 3) These samples were dissolved totally by pre -conditioning method according to below flow chart (Cr6+ test method excluded).





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Sample photo:



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