

## Test Report

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NELTRON INDUSTRIAL CO., LTD.  
SCIENCE SERVICE PLAZA,1,HENGtian SECOND ROAD,TANGXIA TOWN DONGGUAN  
CITY, GUANGDONG PROVINCE  
CHINA

**This report is to supersede test report CANEC0804294706**

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

SGS Job No. : 11208159 - SZ  
SGS Internal Reference No. : 8.7  
Client Reference Information : plastic grains  
SEE ATTACHMENT  
Date of Sample Received : 06 Aug 2008  
Testing Period : 06 Aug 2008 - 12 Aug 2008  
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 : A: Based on the performed tests on submitted sample(s), the results **comply with** the RoHS Directive 2002/95/EC and its subsequent amendments.

Signed for and on behalf of  
SGS-CSTC Ltd.



Huang Fang, Sunny  
Sr. Engineer

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## Test Results:

ID for specimen 1 : CAN08-042947.007  
Description for specimen 1 : White plastic grains

## A: RoHS Directive 2002/95/EC

Test Item(s)	Unit	Test Method (Reference)	Result	MDL	Limit
Cadmium (Cd)	mg/kg	IEC 62321/2nd CDV (111/95/CDV), ICP-OES	N.D.	2	100
Lead (Pb)	mg/kg	IEC 62321/2nd CDV (111/95/CDV), ICP-OES	14	2	1000
Mercury (Hg)	mg/kg	IEC 62321/2nd CDV (111/95/CDV), ICP-OES	N.D.	2	1000
Hexavalent Chromium (CrVI) by alkaline extraction	mg/kg	IEC 62321/2nd CDV (111/95/CDV), UV-Vis	N.D.	2	1000
Sum of PBBs	mg/kg	-	N.D.	-	1000
Monobromobiphenyl	mg/kg	IEC 62321/2nd CDV (111/95/CDV), GC-MS	N.D.	5	
Dibromobiphenyl	mg/kg	IEC 62321/2nd CDV (111/95/CDV), GC-MS	N.D.	5	
Tribromobiphenyl	mg/kg	IEC 62321/2nd CDV (111/95/CDV), GC-MS	N.D.	5	
Tetrabromobiphenyl	mg/kg	IEC 62321/2nd CDV (111/95/CDV), GC-MS	N.D.	5	
Pentabromobiphenyl	mg/kg	IEC 62321/2nd CDV (111/95/CDV), GC-MS	N.D.	5	
Hexabromobiphenyl	mg/kg	IEC 62321/2nd CDV (111/95/CDV), GC-MS	N.D.	5	
Heptabromobiphenyl	mg/kg	IEC 62321/2nd CDV (111/95/CDV), GC-MS	N.D.	5	
Octabromobiphenyl	mg/kg	IEC 62321/2nd CDV (111/95/CDV), GC-MS	N.D.	5	
Nonabromobiphenyl	mg/kg	IEC 62321/2nd CDV (111/95/CDV), GC-MS	N.D.	5	
Decabromobiphenyl	mg/kg	IEC 62321/2nd CDV (111/95/CDV), GC-MS	N.D.	5	
Sum of PBDEs	mg/kg	-	N.D.	-	1000
Monobromodiphenyl ether	mg/kg	IEC 62321/2nd CDV (111/95/CDV), GC-MS	N.D.	5	
Dibromodiphenyl ether	mg/kg	IEC 62321/2nd CDV (111/95/CDV), GC-MS	N.D.	5	
Tribromodiphenyl ether	mg/kg	IEC 62321/2nd CDV (111/95/CDV), GC-MS	N.D.	5	
Tetrabromodiphenyl ether	mg/kg	IEC 62321/2nd CDV (111/95/CDV), GC-MS	N.D.	5	
Pentabromodiphenyl ether	mg/kg	IEC 62321/2nd CDV (111/95/CDV), GC-MS	N.D.	5	
Hexabromodiphenyl ether	mg/kg	IEC 62321/2nd CDV (111/95/CDV), GC-MS	N.D.	5	
Heptabromodiphenyl ether	mg/kg	IEC 62321/2nd CDV (111/95/CDV), GC-MS	N.D.	5	
Octabromodiphenyl ether	mg/kg	IEC 62321/2nd CDV (111/95/CDV), GC-MS	N.D.	5	
Nonabromodiphenyl ether	mg/kg	IEC 62321/2nd CDV (111/95/CDV), GC-MS	N.D.	5	
Decabromodiphenyl ether ##	mg/kg	IEC 62321/2nd CDV (111/95/CDV), GC-MS	N.D.	5	

## Note:

1. mg/kg = ppm
2. N.D. = Not Detected (< MDL)
3. MDL = Method Detection Limit
4. ## = The exemption of DecaBDE in polymeric application according 2005/717/EC was overruled by the European Court of Justice by its decision of 01.04.2008. Subsequently DecaBDE will be included in the sum of PBDE after 01.07.2008
5. "-" = Not regulated

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### B: PFOA & PFOS ( Perfluorooctanoic acid & Perfluorooctane sulfonates )

Test Item(s)	Unit	Test Method (Reference)	Result	MDL
Perfluorooctanoic acid (PFOA)	mg/kg	EPA 3540C: 1996, LC-MS	N.D.	10
Perfluorooctane sulfonates (PFOS)	mg/kg	EPA 3540C: 1996, LC-MS	N.D.	10
PFOS Acid				
PFOS Metal Salt				
PFOS Amide				

#### Note:

1. mg/kg = ppm
2. N.D. = Not Detected (< MDL)
3. MDL = Method Detection Limit

#### Reference Information: Directive 2006/122/EC

- (1) May not be placed on the market or used as a substance or constituent of preparations in a concentration equal to or higher than 0.005 % by mass.
- (2) May not be placed on the market in semi-finished products or articles, or parts thereof, if the concentration of PFOS is equal to or higher than 0.1 % by mass calculated with reference to the mass of structurally or microstructurally distinct parts that contain PFOS or, for textiles or other coated materials, if the amount of PFOS is equal to or higher than 1µg /m<sup>2</sup> of the coated material.

### C: PAHs (Polynuclear Aromatic Hydrocarbons)

Test Item(s)	Unit	Test Method	Result	MDL
Naphthalene	mg/kg	ZEK 01-08, GC-MS	N.D.	0.2
Acenaphthylene	mg/kg	ZEK 01-08, GC-MS	N.D.	0.2
Acenaphthene	mg/kg	ZEK 01-08, GC-MS	N.D.	0.2
Fluorene	mg/kg	ZEK 01-08, GC-MS	N.D.	0.2
Phenanthrene	mg/kg	ZEK 01-08, GC-MS	N.D.	0.2
Anthracene	mg/kg	ZEK 01-08, GC-MS	N.D.	0.2
Fluoranthene	mg/kg	ZEK 01-08, GC-MS	N.D.	0.2
Pyrene	mg/kg	ZEK 01-08, GC-MS	N.D.	0.2
Benz(a)anthracene	mg/kg	ZEK 01-08, GC-MS	N.D.	0.2
Chrysene	mg/kg	ZEK 01-08, GC-MS	N.D.	0.2
Benzo(b)fluoranthene	mg/kg	ZEK 01-08, GC-MS	N.D.	0.2
Benzo(k)fluoranthene	mg/kg	ZEK 01-08, GC-MS	N.D.	0.2
Benzo(a)pyrene	mg/kg	ZEK 01-08, GC-MS	N.D.	0.2
Indeno(1,2,3-cd)pyrene	mg/kg	ZEK 01-08, GC-MS	N.D.	0.2
Dibenzo(a,h)anthracene	mg/kg	ZEK 01-08, GC-MS	N.D.	0.2
Benzo(g,h,i)perylene	mg/kg	ZEK 01-08, GC-MS	N.D.	0.2
Sum of 16 PAHs acc. US EPA	mg/kg	-	N.D.	-

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### Note:

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2. N.D. = Not Detected (< MDL)
3. MDL = Method Detection Limit

### ZEK 01-08 : Restraining maximum values for products

Parameter	Category 1 Material in contact with foodstuff or materials which are meant to put in the mouth as well as toys for children <36 months	Category 2 Materials with foreseeable skin contact >30 s (prolonged skin contact) and toys not covered by category 1	Category 3 Materials with foreseeable skin contact <30 s (short time skin contact) or without skin contact
Benzo[a]pyrene (mg/kg)	<MDL (<0.2)	1	20
Sum 16 PAH (US EPA) (mg/kg)**	<MDL (<0.2)	10	200

Remark : \*\* = Only PAH substances >0.2 mg/kg are taken into account while calculating the sum of PAHs

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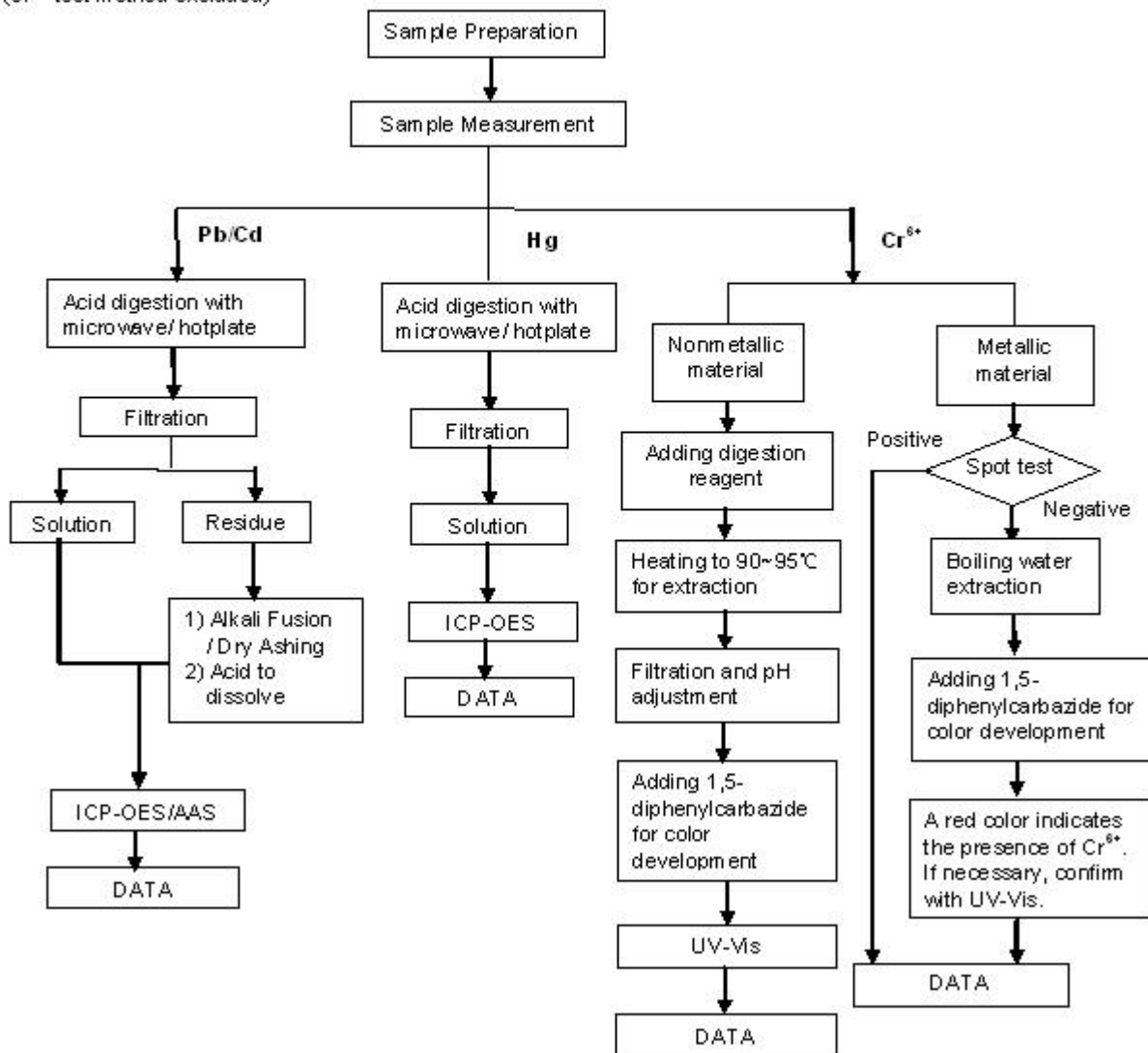
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## ATTACHMENTS

### Testing Flow Chart

- 1) Name of the person who made measurement: Bowen Chen
- 2) Name of the person in charge of measurement: Adams Yu
- 3) These samples were dissolved totally by pre-conditioning method according to below flow chart.  
(Cr<sup>6+</sup> test method excluded)



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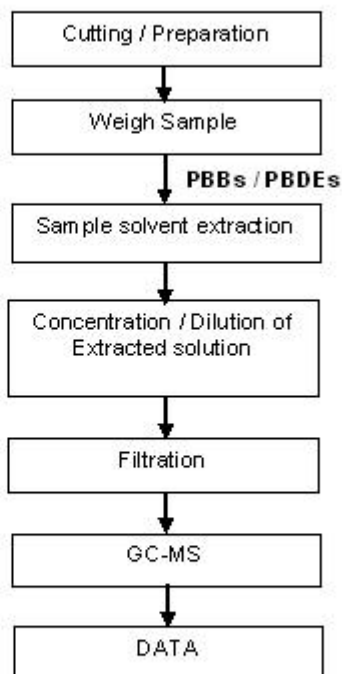
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### Testing Flow Chart

- 1) Name of the person who made measurement: Lina Tang
- 2) Name of the person in charge of measurement: Nina Wu



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PBT 材質:								
序號	料號	材質	序號	料號	材質	序號	料號	材質
1	1201(V)-XX-5M(-SL)	PBT	46	41612-32AB(48ABC/64AB/96ABC)-XX	PBT	91	5514P(S)-XXWXX	PBT
2	1202S-XX-0505(-M)(-XX)	PBT	47	41612-64AB(32AB)-FS-IDC	PBT	92	5515P(S)-XXWXX	PBT
3	1211-XX/XX	PBT	48	4400-XX(SR)-(CK)	PBT	93	6801S-XX-XX	PBT
4	1230S(R)-XX	PBT	49	4401-XXSR	PBT	94	6803S-XX-XX	PBT
5	1394R(S/UR)-XX(-TC)	PBT	50	4402-XXSR	PBT	95	7002-XPXC	PBT
6	1600H(HB)	PBT	51	4403-XX	PBT	96	7004-6P2C	PBT
7	1778MC(P/S)-XX-XX(-114)	PBT	52	4404A(B)-XX	PBT	97	7005-XPXC	PBT
8	2205XX	PBT	53	4405-XX	PBT	98	7006-XPXC	PBT
9	6901	PBT	54	4406-XX	PBT	99	7007-XPXC	PBT
10	2208R(S)DI(D3)-XXG-XXX (Pin Length)	PBT	55	4407-XX	PBT	100	7008-XPXC	PBT
11	2210S(SM)(SMDI)-XXG-XXX (Pin Length)	PBT	56	4408-XX	PBT	101	7010V-X-XPXC	PBT
12	2210R(DI)-XXG-XXX(Pin Length)	PBT	57	4410-40SR-XX	PBT	102	7062-XPXC	PBT
13	2199SB(RB)(SBDI)-XXG-SM-XXXX (Pin Length)	PBT	58	4412-XX-(CK)	PBT	103	7250S-XPXC	PBT
14	2211R/U/S/DI/DI-XXG-XXXX (Pin Length)	PBT	59	4415-XX	PBT	104	7290-XPXC	PBT
15	2213R/U/S/DI/DI-XXG-XXX (Pin Length)	PBT	60	4501-XXSR	PBT	105	7666-2-6PXC	PBT
16	2233S(R)-XXG	PBT	61	5075AR(ARP/ARRP/AS/AUR)-08B(12C/16D)-XX	PBT	106	7731-8824-XXX	PBT
17	2215S(R)-XXG	PBT	62	5075BR(BRP/BS)-04-XX	PBT	107	7801R-XX-70	PBT
18	4416S-XX	PBT	63	5075MS-10/12/14-12/A/P	PBT	108	7803R-XX-70	PBT
19	2212(2214)TBA-XXX-XXX(Height)	PBT	64	6601-XX-PBT	PBT	109	7810-XPXC	PBT
20	2212111-XXG-XX	PBT	65	5501	PBT	110	7907-X-XPXC	PBT
21	2212S(BR/CS/DS/TB)-XXG(SG)-XX(86/66/36/57/85)	PBT	66	5502	PBT	111	7908-X-XPXC	PBT
22	2214113-XXG-XX	PBT	67	5503	PBT	112	7950-XPXC	PBT

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PBT 材質:								
序號	料號	材質	序號	料號	材質	序號	料號	材質
23	2214BR(CS/DS/R/S/TB)-XXG(SG)-XX(86/86/85/36/57)	PBT	68	5504F1	PBT	113	95001-X-XPXC	PBT
24	2216R(S)-XXG-XX	PBT	69	5504F1(FX)	PBT	114	AY222-AY224	PBT
25	2223S(R)-XX	PBT	70	5504F1C	PBT	115	81XS(R/SMAP/XX)-XXX	PBT
26	2225ME(A/R/S)-XX(-XX/XXD)	PBT	71	5504F2	PBT	116	921XS(R/SM/P/XX)-XXX	PBT
27	2227(A/MC/P)-XX-XX	PBT	72	5506	PBT	117	376XS(R/SM/P/XX)-XX	PBT
28	2228P-XXG	PBT	73	5508	PBT	118	121XS(R/SM/P/XX)-XX	PBT
29	2228XG	PBT	74	5509	PBT	119	201XS(R/SM/P/XX)-XXX	PBT
30	2150-008-A3(A5)-X	PBT	75	5510	PBT	120	702XS(R/SM/P/XX)-XXX-XX	PBT
31	2234S-XXG	PBT	76	5510C	PBT	121	451XS(R/SM/P/XX)-XXX-XX	PBT
32	2316R(S)-XXG	PBT	77	FO-X-00(02/04)-XX	PBT	122	511XS(R/SM/P/XX)-XXX-XX	PBT
33	2316R(S)-XXG-01/02	PBT	78	5511-HD15F-3PJ	PBT	123	681XS(R/SM/P/XX)-XXX-XX	PBT
34	69-1983A(2382A)(2384A)	PBT	79	5511-HD15FMD6SX2	PBT	124	TAE-06-30	PBT
35	2323S(R)-XXA(B)	PBT	80	5511-XXM/XXM-XX-XX	PBT	125	4411H-XXT	PBT
36	2324S(R)-XXA(B)	PBT	81	5512	PBT	126	6830S-XX	PBT
37	2325-XX-XX	PBT	82	5513P(S)-XXWXX	PBT	127	6831S-XX	PBT
38	5511-25S-09PHD15S	PBT	83	5504F3	PBT	128	6832S-XX	PBT
39	2392(R1)-2100	PBT	84	1003A(1005A)-68P(S)/36P(S)/100P(S)-RB-A	PBT	129	6833S-XX	PBT
40	2425-XX-XX	PBT	85	1007(1007S)-XXS-RB	PBT	130	6604P(PB/S/SB)-XX(WR)-121	PBT
41	3750A(C/G/H/S/R)-XX	PBT	86	5518R(S)-24-1M15(5M15)-XXXX	PBT	131	1212/1213/1214	PBT
42	2206SA/SB-XXG-(SM)-46/85/60	PBT	87	1200P(S)-XXXX	PBT	132	1215/1216/1217	PBT
43	2214(2212)S-XXG-55/5762	PBT	88	1202S(P)-XXX	PBT	133	2206PA(PADI)(RPA)-XXG-XXXX(Pin Length)SM	PBT
44	2212(2214)CS-XXG-86	PBT	89	2411R(S)(DI)-XXX(Pin Length)	PBT	134	2206PB(PBDI)(RPB)-XXG-XXXX(Pin Length)SM	PBT
45	2212111(2214113)-XXG-XX	PBT	90	2413R(S)(DI)-XXX(Pin Length)	PBT	135	2513R(RDI)(SM)-XXG-XXXX(Pin Length)	PBT

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Sample photo:



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