

# Test Report

No. : CE/2007/C0687    Date : 2007/12/12    Page : 1 of 12


ADVANTEK INC.  
LOT C3-12 CARMELRAY INDUSTRIAL PARK II SEPZ, BRGY. PUNTA, CALAMBA CITY,  
LAGUNA 4027, PHILIPPINES



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

Sample Description : CARRIER TAPE  
Style/Item No. : ADVANTEK TRI-LAMINATE PS+C CARRIER TAPE  
Sample Receiving Date : 2007/12/04  
Testing Period : 2007/12/04 TO 2007/12/12

=====  
Test Result(s) : Please refer to next page(s).

  
Chenyu Kung / Operation Manager  
Signed for and on behalf of  
SGS TAIWAN LTD.  
Chemical Laboratory – Taipei

# Test Report

No. : CE/2007/C0687 Date : 2007/12/12 Page : 2 of 12

ADVANTEK INC.

LOT C3-12 CARMELRAY INDUSTRIAL PARK II SEPZ, BRGY. PUNTA, CALAMBA CITY,  
LAGUNA 4027, PHILIPPINES



## Test Result(s)

PART NAME NO.1 : BLACK PLASTIC

PASS

Test Item (s):	Unit	Method	MDL	Result	Limit
				No.1	
<b>94/62/EC (Heavy metal content)</b>	---	---	---	---	---
Cadmium (Cd)	mg/kg	With reference to US EPA Method 3052 for Cadmium Content. Analysis was performed by ICP-AES.	2	n.d.	-
Lead (Pb)	mg/kg	With reference to US EPA Method 3052 for Lead Content. Analysis was performed by ICP-AES.	2	n.d.	-
Mercury (Hg)	mg/kg	With reference to US EPA Method 3052 for Mercury Content. Analysis was performed by ICP-AES.	2	n.d.	-
Hexavalent Chromium Cr(VI)	mg/kg	With reference to US EPA Method 3060A & 7196A for Hexavalent Chromium. Analysis was performed by UV/Vis Spectrometry.	2	n.d.	-
<b>Total Lead+Cadmium+Mercury+ Hexavalent Chromium Cr(VI)</b>	mg/kg	Total Lead+Cadmium+Mercury+ Hexavalent Chromium Cr(VI) (94/62/EC)	-	n.d.	100

Test Item (s):	Unit	Method	MDL	Result	Limit
				No.1	
Antimony (Sb)	mg/kg	With reference to US EPA Method 3050B for Antimony Content. Analysis was performed by ICP-AES.	2	n.d.	-
Beryllium (Be)	mg/kg	With reference to US EPA Method 3050B for Beryllium Content. Analysis was performed by ICP-AES.	2	n.d.	-

# Test Report

No. : CE/2007/C0687 Date : 2007/12/12 Page : 3 of 12

ADVANTEK INC.

LOT C3-12 CARMELRAY INDUSTRIAL PARK II SEPZ, BRGY. PUNTA, CALAMBA CITY,  
LAGUNA 4027, PHILIPPINES



Test Item (s):	Unit	Method	MDL	Result	Limit
				No.1	
Nickel (Ni)	mg/kg	With reference to US EPA Method 3050B for Nickel Content. Analysis was performed by ICP-AES.	2	n.d.	-
Polychlorinated Biphenyls (PCBs) (CAS No.: 001336-36-3)	mg/kg	With reference to US EPA 8270D method. Analysis was performed by GC/MS.	0.5	n.d.	-
Polychlorinated Terphenyls (PCTs)	mg/kg	With reference to US EPA 8270D method. Analysis was performed by GC/MS.	0.5	n.d.	-
Polychlorinated Naphthalene (PCNs)	mg/kg	With reference to US EPA 8270D method. Analysis was performed by GC/MS.	5	n.d.	-
Chlorinated Paraffin (C10~C13) (CAS No.: 010871-26-2)	%	With reference to US EPA 8270D method. Analysis was performed by GC/MS.	0.01	n.d.	-
Mirex (CAS No.: 002385-85-5)	mg/kg	With reference to US EPA 8270D method. Analysis was performed by GC/MS.	4	n.d.	-
PVC	%	Analysis was performed by FTIR and Pyrolyzer-GC/MS.	1	Negative	-
<b>Organic-tin compounds</b>	---	---	---	---	---
Triphenyl Tin (TphT) (CAS No.: 000668-34-8)	mg/kg	With reference to DIN 38407-13. Analysis was performed by GC/FPD.	0.03	n.d.	-
Tributyl Tin (TBT) (CAS No.: 000688-73-3)	mg/kg	With reference to DIN 38407-13. Analysis was performed by GC/FPD.	0.03	n.d.	-
<b>Halogen</b>	---	With reference to BS EN 14582. Analysis was performed by IC method for F, Cl, Br, I content.	---	---	---
Halogen-Fluorine (F) (CAS No.: 007782-41-4)	mg/kg	With reference to BS EN 14582. Analysis was performed by IC method for Fluorine content.	50	n.d.	-
Halogen-Chlorine (Cl) (CAS No.: 007782-50-5)	mg/kg	With reference to BS EN 14582. Analysis was performed by IC method for Chlorine content.	50	113	-
Halogen-Bromine (Br) (CAS No.: 007726-95-6)	mg/kg	With reference to BS EN 14582. Analysis was performed by IC method for Bromine content.	50	n.d.	-

# Test Report

No. : CE/2007/C0687 Date : 2007/12/12 Page : 4 of 12

ADVANTEK INC.

LOT C3-12 CARMELRAY INDUSTRIAL PARK II SEPZ, BRGY. PUNTA, CALAMBA CITY,  
LAGUNA 4027, PHILIPPINES



Test Item (s):	Unit	Method	MDL	Result	Limit
				No.1	
Halogen-Iodine (I) (CAS No.: 007553-56-2)	mg/kg	With reference to BS EN 14582. Analysis was performed by IC method for Iodine content.	50	n.d.	-
<b>Asbestos</b>	---	---	---	---	---
Amosite (CAS No.: 012172-73-5)	%	As per NIOSH 9000 method. Analysis was performed by XRD.	1	Negative	-
Chrysotile (CAS No.: 012001-29-5)	%	As per NIOSH 9000 method. Analysis was performed by XRD.	1	Negative	-
Crocidolite (CAS No.: 012001-28-4)	%	As per NIOSH 9000 method. Analysis was performed by XRD.	1	Negative	-
Anthophyllite (CAS No.: 017068-78-9)	%	As per NIOSH 9000 method. Analysis was performed by XRD.	1	Negative	-
Tremolite (CAS No.: 014567-73-8)	%	As per NIOSH 9000 method. Analysis was performed by XRD.	1	Negative	-
Actinolite (CAS No.: 013768-00-8)	%	As per NIOSH 9000 method. Analysis was performed by XRD.	1	Negative	-
<b>Phthalates</b>	---	---	---	---	---
DBP (Dibutyl phthalate) (CAS No.: 000084-74-2)	%	With reference to Chromatographia Vol.47, No.784, 1998. Analysis was performed by GC/MS. (prohibited by 2005/84/EC).	0.003	n.d.	-
DINP (Di-isononyl phthalate) (CAS No.: 028553-12-0)	%	With reference to Chromatographia Vol.47, No.784, 1998. Analysis was performed by GC/MS. (prohibited by 2005/84/EC).	0.003	n.d.	-
DEHP (Di- (2-ethylhexyl) phthalate) (CAS No.: 000117-81-7)	%	With reference to Chromatographia Vol.47, No.784, 1998. Analysis was performed by GC/MS. (prohibited by 2005/84/EC).	0.003	n.d.	-
DIDP (Di-isodecyl phthalate) (CAS No.: 026761-40-0)	%	With reference to Chromatographia Vol.47, No.784, 1998. Analysis was performed by GC/MS. (prohibited by 2005/84/EC).	0.003	n.d.	-

# Test Report

No. : CE/2007/C0687 Date : 2007/12/12 Page : 5 of 12

ADVANTEK INC.

LOT C3-12 CARMELRAY INDUSTRIAL PARK II SEPZ, BRGY. PUNTA, CALAMBA CITY,  
LAGUNA 4027, PHILIPPINES



Test Item (s):	Unit	Method	MDL	Result	Limit
				No.1	
DNOP (Di-n-octyl phthalate) (CAS No.: 000117-84-0)	%	With reference to Chromatographia Vol.47, No.784, 1998. Analysis was performed by GC/MS. (prohibited by 2005/84/EC).	0.003	n.d.	-
BBP (Benzyl butyl phthalate) (CAS No.: 000085-68-7)	%	With reference to Chromatographia Vol.47, No.784, 1998. Analysis was performed by GC/MS. (prohibited by 2005/84/EC).	0.003	n.d.	-
<b>Hydrofluorcarbon, fluorinated hydrocarbon, fluorohydrocarbon (HFC)</b>	---	---	---	---	---
HFC-23 (CHF3)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
HFC-32 (CHF3)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
HFC-41 (CH3F)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
HFC-43-10mee (C5H2F10)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
HFC-125 (C2HF5)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
HFC-134 (C2H2F4)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
HFC-134a (CH2FCF3)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
HFC-143 (CH3F3)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
HFC-143a (CH3F3)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
HFC-152a (C2H4F2)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-

# Test Report

No. : CE/2007/C0687 Date : 2007/12/12 Page : 6 of 12

ADVANTEK INC.

LOT C3-12 CARMELRAY INDUSTRIAL PARK II SEPZ, BRGY. PUNTA, CALAMBA CITY,  
LAGUNA 4027, PHILIPPINES



Test Item (s):	Unit	Method	MDL	Result	Limit
				No.1	
HFC-227ea (C3HF7)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
HFC-236fa (C3H2F6)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
HFC-236ea (C3H2F6)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
HFC-245ca (C3H3F5)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
HFC-245fa (C3H3F5)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
HFC-365mfc (C4H5F5)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
<b>Perfluorocarbon (PFC)</b>	---	---	---	---	---
F14 (CAS No.: 000075-73-0)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
Fluorocarbon 116 (CAS No.: 000076-16-4)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
Freon 218 (CAS No.: 000076-19-7)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
Decafluorobutane (CAS No.: 000355-25-9)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
Freon C318 (CAS No.: 000115-25-3)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
Perfluor-1-butane (CAS No.: 000357-26-6)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
perfluorisobutane (CAS No.: 000382-21-8)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-

# Test Report

No. : CE/2007/C0687 Date : 2007/12/12 Page : 7 of 12

ADVANTEK INC.

LOT C3-12 CARMELRAY INDUSTRIAL PARK II SEPZ, BRGY. PUNTA, CALAMBA CITY,  
LAGUNA 4027, PHILIPPINES



Test Item (s):	Unit	Method	MDL	Result	Limit
				No.1	
1,4-dihydroctafluorobutane (CAS No.: 000377-36-6)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
nonafluor-2- (trifluoromethyl)butane (CAS No.: 000594-91-2)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
perfluoro-n-pentane (CAS No.: 000678-26-2)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
2-perfluoromethylpentane (CAS No.: 000355-04-4)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
perfluorohexane (CAS No.: 000355-42-0)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
<b>Sum of PBBs</b>	mg/kg	With reference to US EPA 3540C for PBBs/PBDEs Content. Analysis was performed by GC/MS.	-	n.d.	-
Monobromobiphenyl			5	n.d.	-
Dibromobiphenyl			5	n.d.	-
Tribromobiphenyl			5	n.d.	-
Tetrabromobiphenyl			5	n.d.	-
Pentabromobiphenyl			5	n.d.	-
Hexabromobiphenyl			5	n.d.	-
Heptabromobiphenyl			5	n.d.	-
Octabromobiphenyl			5	n.d.	-
Nonabromobiphenyl			5	n.d.	-
Decabromobiphenyl			5	n.d.	-
<b>Sum of PBDEs (Mono to Nona) (Note 4)</b>			-	n.d.	-
Monobromobiphenyl ether			5	n.d.	-
Dibromobiphenyl ether			5	n.d.	-
Tribromobiphenyl ether			5	n.d.	-
Tetrabromobiphenyl ether			5	n.d.	-
Pentabromobiphenyl ether			5	n.d.	-
Hexabromobiphenyl ether			5	n.d.	-
Heptabromobiphenyl ether			5	n.d.	-
Octabromobiphenyl ether			5	n.d.	-
Nonabromobiphenyl ether			5	n.d.	-
Decabromobiphenyl ether			5	n.d.	-
<b>Sum of PBDEs (Mono to Deca)</b>			-	n.d.	-

# Test Report

No. : CE/2007/C0687 Date : 2007/12/12 Page : 8 of 12

ADVANTEK INC.

LOT C3-12 CARMELRAY INDUSTRIAL PARK II SEPZ, BRGY. PUNTA, CALAMBA CITY,  
LAGUNA 4027, PHILIPPINES



Test Item (s):	Unit	Method	MDL	Result	Limit
				No.1	
<b>AZO</b>	---	---	---	---	---
1): 4-AMINODIPHENYL (CAS No.: 000092-67-1)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.	-
2): BENZIDINE (CAS No.: 000092-87-5)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.	-
3): 4-CHLORO-O-TOLUIDINE (CAS No.: 000095-69-2)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.	-
4): 2-NAPHTHYLAMINE (CAS No.: 000091-59-8)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.	-
5): O-AMINOAZOTOLUENE (CAS No.: 000097-56-3)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.	-
6): 2-AMINO-4-NITROTOLUENE (CAS No.: 000099-55-8)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.	-
7): P-CHLOROANILINE (CAS No.: 000106-47-8)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.	-
8): 2,4-DIAMINOANISOLE (CAS No.: 000615-05-4)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.	-
9): 4,4'-DIAMINODIPHENYLMETHANE (CAS No.: 000101-77-9)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.	-
10): 3,3'-DICHLOROBENZIDINE (CAS No.: 000091-94-1)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.	-
11): 3,3'-DIMETHOXYBENZIDINE (CAS No.: 000119-90-4)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.	-
12): 3,3'-DIMETHYLBENZIDINE (CAS No.: 000119-93-7)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.	-

# Test Report

No. : CE/2007/C0687 Date : 2007/12/12 Page : 9 of 12

ADVANTEK INC.

LOT C3-12 CARMELRAY INDUSTRIAL PARK II SEPZ, BRGY. PUNTA, CALAMBA CITY,  
LAGUNA 4027, PHILIPPINES



Test Item (s):	Unit	Method	MDL	Result	Limit
				No.1	
13): 3,3'-DIMETHYL-4,4'-DIAMINODIPHENYLMETHANE (CAS No.: 000838-88-0)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.	-
14): P-CRESIDINE (2-METHOXY-5-METHYLANILINE) (CAS No.: 000120-71-8)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.	-
15): 4,4'-METHYLENE-BIS- (2-CHLOROANILINE) (CAS No.: 000101-14-4)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.	-
16): 4,4'-OXYDIANILINE (CAS No.: 000101-80-4)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.	-
17): 4,4'-THIODIANILINE (CAS No.: 000139-65-1)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.	-
18): O-TOLUIDINE (CAS No.: 000095-53-4)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.	-
19): 2,4-TOLUYLENEDIAMINE (CAS No.: 000095-80-7)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.	-
20): 2,4,5-TRIMETHYLANILINE (CAS No.: 000137-17-7)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.	-
21): O-ANISIDINE (CAS No.: 000090-04-0)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.	-
22): P-AMINOAZOBENZENE (CAS No.: 000060-09-3)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.	-
23): 2,4-XYLIDINE (CAS No.: 000095-68-1)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.	-
24): 2,6-XYLIDINE (CAS No.: 000087-62-7)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.	-

# Test Report

No. : CE/2007/C0687 Date : 2007/12/12 Page : 10 of 12

ADVANTEK INC.

LOT C3-12 CARMELRAY INDUSTRIAL PARK II SEPZ, BRGY. PUNTA, CALAMBA CITY,  
LAGUNA 4027, PHILIPPINES



Test Item (s):	Unit	Method	MDL	Result	Limit
				No.1	
<b>Polycyclic aromatic Hydrocarbons (PAHs)</b>	---	---	---	---	---
Phenanthrene (CAS No.: 000085-01-8)	mg/kg	With reference to ISO 18287. Analysis was performed by GC/MS.	0.1	n.d.	-
2-Methylnaphthalene			0.1	n.d.	-
1-Methylnaphthalene			0.1	n.d.	-
Pyrene (CAS No.: 000129-00-0)			0.1	n.d.	-
Naphthalene(CAS No.: 000091-20-3)			0.1	n.d.	-
Indeno[1,2,3-c,d] pyrene (CAS No.: 000193-39-5)			0.1	n.d.	-
Fluorene (CAS No.: 000086-73-7)			0.1	n.d.	-
Fluoranthene (CAS No.: 000206-44-0)			0.1	n.d.	-
Dibenzo[a,h]anthracene (CAS No.: 000053-70-3)			0.1	n.d.	-
Chrysene (CAS No.: 000218-01-9)			0.1	n.d.	-
Benzo[k]fluoranthene (CAS No.: 000207-08-9)			0.1	n.d.	-
Benzo[g,h,i]perylene (CAS No.: 000191-24-2)			0.1	n.d.	-
Benzo[b]fluoranthene (CAS No.: 000205-99-2)			0.1	n.d.	-
Benzo[a]pyrene (CAS No.: 000050-32-8)			0.1	n.d.	-
Benzo[a]anthracene (CAS No.: 000056-55-3)			0.1	n.d.	-
Anthracene (CAS No.: 000120-12-7)			0.1	n.d.	-
Acenaphthylene (CAS No.: 000208-96-8)			0.1	n.d.	-
Acenaphthene (CAS No.: 000083-32-9)	0.1	n.d.	-		
Benzo[e]pyrene (CAS No.: 000192-97-2)	0.1	n.d.	-		

- Note :
1. mg/kg = ppm
  2. n.d. = Not Detected
  3. MDL = Method Detection Limit
  4. According to 2005/717/EC DecaBDE is exempt.
  5. "---" = Not Conducted
  6. " - " = Not Regulated
  7. Negative = "< 1.0 %", Positive = "> 1.0 %"
  8. The MDL is 5ppm for the single compound of CP
  9. Amending for the 22nd Council Directive 76/769/EEC notified under document 2005/84/EC, total concentration of three compounds DEHP, DBP and BBP shall not be greater than 0.1% and total concentration of three compounds DINP, DIDP and DNOP shall not be greater than 0.1%.

# Test Report

No. : CE/2007/C0687    Date : 2007/12/12    Page : 11 of 12

ADVANTEK INC.

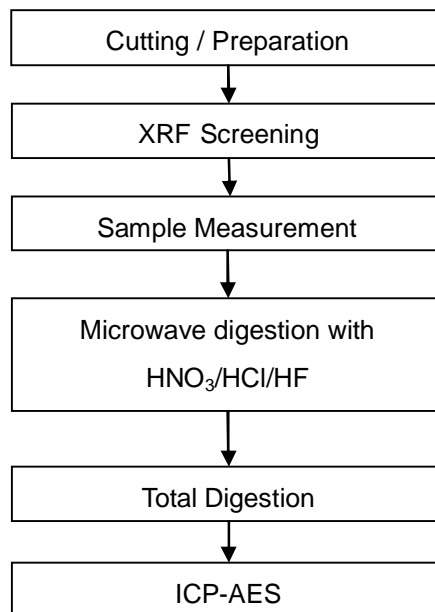
LOT C3-12 CARMELRAY INDUSTRIAL PARK II SEPZ, BRGY. PUNTA, CALAMBA CITY,  
LAGUNA 4027, PHILIPPINES



Per requirements of SONY QAR-05-002:

- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart.
- 2) Name of the person who made measurement: Troy Chang
- 3) Name of the person in charge of measurement: Chenyu Kung

### Flow Chart of Digestion for Plastic –EPA3052 for Pb 、Cd (without residue)



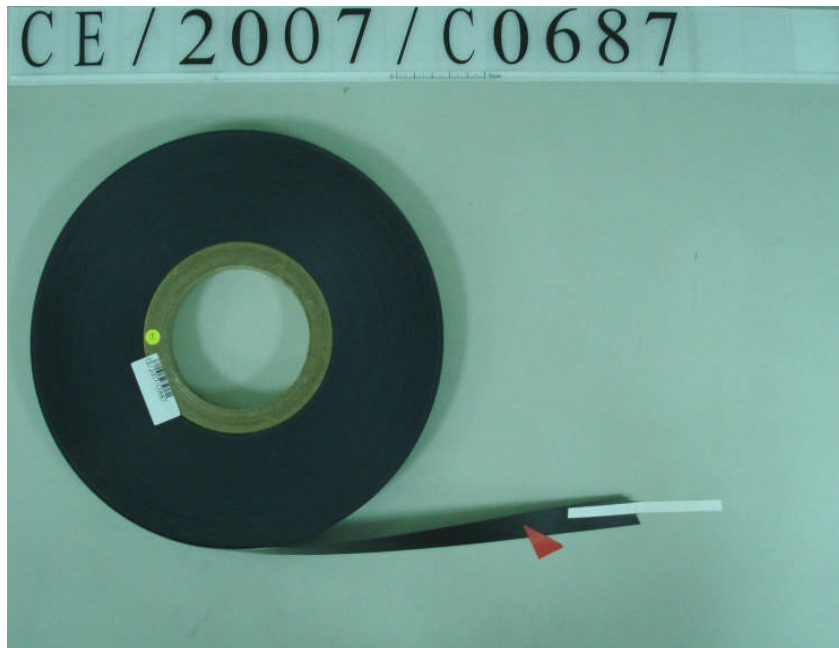
## Test Report

No. : CE/2007/C0687    Date : 2007/12/12    Page : 12 of 12

ADVANTEK INC.

LOT C3-12 CARMELRAY INDUSTRIAL PARK II SEPZ, BRGY. PUNTA, CALAMBA CITY,

LAGUNA 4027, PHILIPPINES



\*\* End of Report \*\*