TEST REPORT

LAB NO. : **(9317)179-1129-R1**
DATE : **Mar 20, 2018**
PAGE : **1 OF 16**

The report is amendment of and supersedes
the previous report (9317)179-1129 dated Jul 03, 2017

APPLICANT	:	**SHENZHEN CHEERMO INNOVATIVE ADHESIVE MATERIALS CO., LTD** TONFUYU NO. 1 PERIOD, CHANGMAO INDUSTRIAL PARK, FUYONG TOWN
CONTACT PERSON	:	陈锦洪
DATE OF SUBMISSION	:	Jun 28, 2017
TEST PERIOD	:	Jun 28, 2017 to Jul 03, 2017
NO. OF WORKING DAYS	:	4
SAMPLE DESCRIPTION	:	self-adhesive paper
Color:		/
Style no. / Model no.:		CH2215,CZ0249,CZ1111,CZ1427,CZ1168,CZ01185,CZ0206,CZ01144,CZ0151,CZ3813,CZ01231,CZ1175,CZ1175,CZ43081,CZ0164,CZ0025,CZ0169,CZ0151,CZ0077,CT0269,CZ01262,CZ0249,CH02112,CZ0029,CZ3813,CH0031,CT0598,CZ0121,CT0269,CS00235,CZ0239,CH0136,CS0209,CZ0004,CZ0261,CS0046,CX0086,CH2215,CT0242,CT3129,CZ01246,CZ508,CZ507,CZ0243,CZ0214,CZ0046,CZ0249,CZ0260, CZ00414, CZ0174, CZ0248, CZ0208, CZ0066, CT00790
P.O. No.:		/
Country of Origin:		/
Country of Destination:		/
MANUFACTURER	:	/

RW

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SUMMARY OF TEST RESULTS

TEST REQUESTED	CONCLUSION	REMARK
Total Lead Content in Substrate - United States Consumer Product Safety Improvement Act (CPSIA) Section 101(a)(2)	PASS	
Total Lead Content in Surface Coating - United States Consumer Product Safety Improvement Act (CPSIA) of 2008, Section 101(a)(2) / United States Code of Federal Regulations (CFR), Title 16, Part 1303	Not Applicable	
Heavy Metals Content in Packaging and Packaging Materials - European Parliament and Council Directive 94/62/EC and 2005/20/EC	PASS	
Phthalates Content in Toys and Childcare Articles - European Regulation (EC) No. 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) with Amendments up to EC No. 552/2009, Annex XVII, Entry 51	PASS	
Phthalates Content in Toys and Childcare Articles which can be placed in the Mouth by Children - European Regulation (EC) No. 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) with Amendments up to EC No. 552/2009, Annex XVII, Entry 52	PASS	
Soluble Heavy Metals Content in Substrate - ASTM International Standard ASTM F963-11, Section 4.3.5.2(2)(b)	PASS	
Soluble Heavy Metals Content in Surface Coating - ASTM International Standard ASTM F963-11, Section 4.3.5.1(2)	Not Applicable	
Migration of Certain Elements - European Parliament and Council Directive 2009/48/EC, Annex II, Part III, Point 13 with its Latest Amendment	PASS	

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SAMPLE DESCRIPTION ASSIGNED BY LABORATORY

ITEM	ITEM DESCRIPTION
1	White paper with adhesive (sample 1)
2	White paper with adhesive (sample 2)
3	White paper with adhesive (sample 3)

BUREAU VERITAS CONSUMER PRODUCTS SERVICES (GUANGZHOU) CO., LTD.

NINA REN
SENIOR MANAGER

REMARK

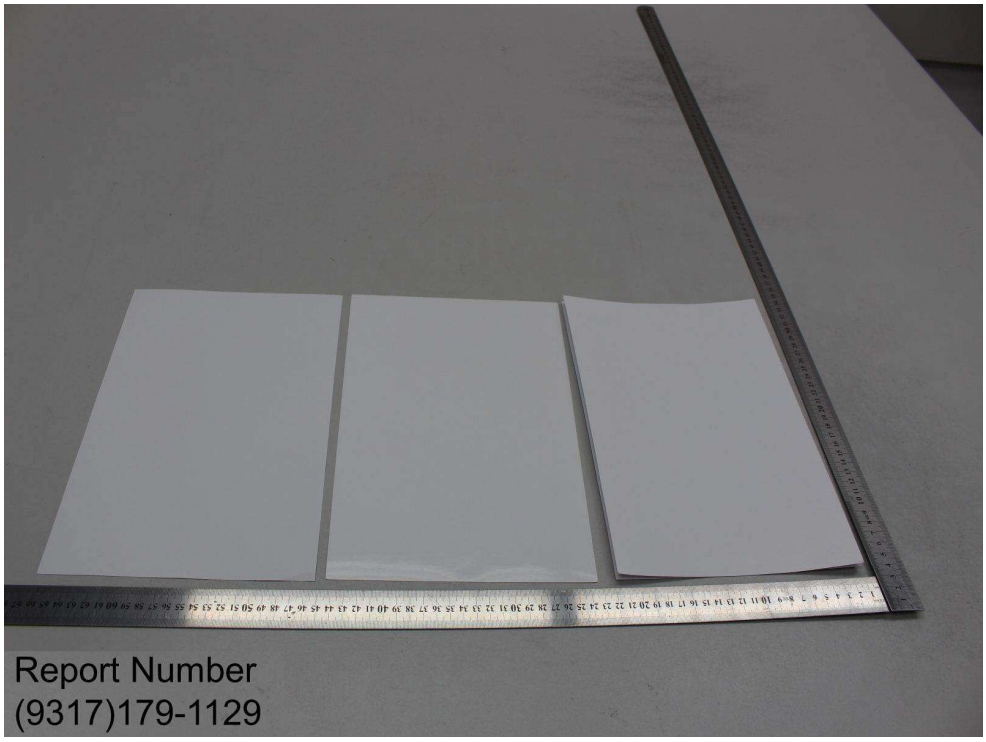
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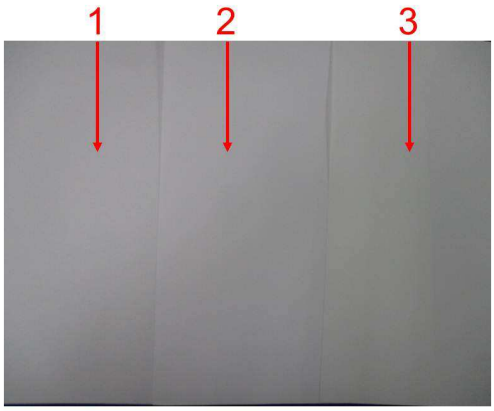
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Photo of the Submitted Sample



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Photograph of test item(s)

	/

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TEST RESULT

Total Lead Content in Substrate - United States Consumer Product Safety Improvement Act (CPSIA) Section 101(a)(2)

Test Method : U.S. CPSC-CH-E1001-08.1 (Issued on June 21, 2010) or U.S. CPSC-CH-E1002-08.1 (Issued on June 21, 2010).

Maximum Allowable Limit :	**100 mg/kg**

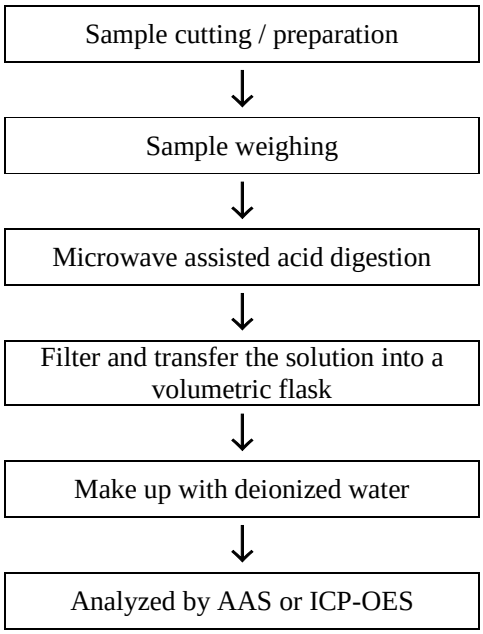
-	**Unit**	**Result**
Test Item(s)	-	1+2+3
Parameter	-	-
Total Lead (Pb)	mg/kg	ND
Conclusion	-	PASS

Note / Key :

ND = Not detected
mg/kg = milligram(s) per kilogram
Detection Limit (mg/kg) : 10
">" = Greater than
% = percent
1 % = 10000 mg/kg

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APPENDIX – TEST PROCESS



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TEST RESULT

Heavy Metals Content in Packaging and Packaging Materials - European Parliament and Council Directive 94/62/EC and 2005/20/EC

Test Method : Pb, Cd & Hg: Sample was digested with nitric acid and then analyzed by Inductively Coupled Argon Plasma Spectrometer or Inductively Coupled Argon Plasma Mass Spectrometer. Cr(VI): Sample was digested with alkaline mixtures and then analyzed by UV-VIS spectrophotometer.

Heavy Metal(s)	**Lead (Pb)**	**Cadmium (Cd)**	**Mercury (Hg)**	**Hexavalent Chromium (Cr VI)**
Maximum Allowable Limit (mg/kg)	**100 mg/kg (Sum of Pb, Cd, Hg and Cr VI)**			

-	**Unit**	**Result**		
Test Item(s)	-	1	2	3
Parameter	-	-	-	-
Total Lead (Pb)	mg/kg	ND	ND	ND
Total Cadmium (Cd)	mg/kg	ND	ND	ND
ChromiumVI (CrVI)	mg/kg	ND	ND	ND
Total Mercury (Hg)	mg/kg	ND	ND	ND
Sum of Pb, Cd, Hg & Cr VI	mg/kg	ND	ND	ND
Conclusion	-	PASS	PASS	PASS

Note / Key :

ND = Not detected ">" = Greater than
mg/kg = milligram(s) per kilogram = ppm = part(s) per million 10 000 mg/kg = 1 %
% = percent U. S. EPA = United States Environmental Protection Agency
Detection Limit (mg/kg) : Each 5(Pb, Cd, Cr VI, Hg), Sum : 20

Remark :

- Unless further specified, the reported result(s) of Test Item(s) was (were) performed by total metal(s) content analysis through complete decomposition.

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TEST RESULT

Phthalates Content in Toys and Childcare Articles - European Regulation (EC) No. 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) with Amendments up to EC No. 552/2009, Annex XVII, Entry 51

Test Method : Sample was extracted with organic solvent and then analyzed by Liquid Chromatograph Mass Spectrometer / Gas Chromatograph Mass Spectrometer.

Maximum Allowable Limit :	**0.1 % (Sum of all listed phthalates)**

Test Item(s)	**Result**			**Conclusion**
	Detected Analyte(s)	**Conc.**	**Unit**	
1+2+3	ND	ND	%	PASS

Note / Key :

ND = Not detected
% = percent
Detection Limit (%) : Each 0.005

">" = Greater than
1 % = 10000 mg/kg

Conc. = Concentration
mg/kg = milligram(s) per kilogram

Remark :

- The list of phthalates is summarized in table of Appendix.

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APPENDIX

List of Phthalates [European EC No. 1907/2006, Annex XVII, Entry 51] :					
No.	**Name of Analytes**	**CAS-No. [EC No.]**	**No.**	**Name of Analytes**	**CAS-No. [EC No.]**
1	Butyl benzyl phthalate (BBP)	85-68-7 [201-622-7]	3	Di-2-ethylhexyl phthalate (DEHP)	117-81-7 [204-211-0]
2	Dibutyl phthalate (DBP)	84-74-2 [201-557-4]	-	-	-

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TEST RESULT

Phthalates Content in Toys and Childcare Articles which can be placed in the Mouth by Children - European Regulation (EC) No. 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) with Amendments up to EC No. 552/2009, Annex XVII, Entry 52

Test Method : Sample was extracted with organic solvent and then analyzed by Liquid Chromatograph Mass Spectrometer / Gas Chromatograph Mass Spectrometer.

Maximum Allowable Limit :	**0.1 % (Sum of all listed phthalates)**

Test Item(s)	**Result**			**Conclusion**
	Detected Analyte(s)	**Conc.**	**Unit**	
1+2+3	ND	ND	%	PASS

Note / Key :

ND = Not detected
% = percent
Detection Limit (%) : Each 0.005
">" = Greater than
1 % = 10000 mg/kg
Conc. = Concentration
mg/kg = milligram(s) per kilogram

Remark :

- The list of phthalates is summarized in table of Appendix.
- Test Item(s) has (have) to comply together with the phthalates requirement of European Regulation (EC) No. 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) with Amendments up to EC No. 552/2009, Annex XVII, Entry 51.

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APPENDIX

List of Phthalates [European EC No. 1907/2006, Annex XVII, Entry 52] :					
No.	**Name of Analytes**	**CAS-No. [EC No.]**	**No.**	**Name of Analytes**	**CAS-No. [EC No.]**
1	Di-iso-nonyl phthalate (DINP)	28553-12-0 & 68515-48-0 [249-079-5 & 271-090-9]	3	Di-iso-decyl phthalate (DIDP)	26761-40-0 & 68515-49-1 [247-977-1 & 271-091-4]
2	Di-n-octyl phthalate (DNOP)	117-84-0 [204-214-7]	-	-	-

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APPENDIX – TEST PROCESS

Sample weight measurement

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Extraction with organic solvent

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Filtration through syringe filter

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GC-MS / LC-MS analysis

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TEST RESULT

Soluble Heavy Metals Content in Substrate - ASTM International Standard ASTM F963-11, Section 4.3.5.2(2)(b)

Test Method : ASTM International Standard ASTM F963-11, Section 8.3.5 (Excluding 8.3.5.5(3)).

Soluble Element(s)	**As**	**Ba**	**Cd**	**Cr**	**Hg**	**Pb**	**Sb**	**Se**
Maximum Allowable Limit (mg/kg)	**25**	**1000**	**75**	**60**	**60**	**90**	**60**	**500**
Analytical Correction (%)	**60**	**30**	**30**	**30**	**50**	**30**	**60**	**60**

-	**Unit**	**Result**		
Test Item(s)	-	1	2	3
Parameter	-	-	-	-
Mass of Trace Amount	g	-	-	-
Soluble Arsenic (As)	mg/kg	ND	ND	ND
Soluble Barium (Ba)	mg/kg	ND	ND	ND
Soluble Cadmium (Cd)	mg/kg	ND	ND	ND
Soluble Chromium (Cr)	mg/kg	ND	ND	ND
Soluble Mercury (Hg)	mg/kg	ND	ND	ND
Soluble Lead (Pb)	mg/kg	ND	ND	ND
Soluble Antimony (Sb)	mg/kg	ND	ND	ND
Soluble Selenium (Se)	mg/kg	ND	ND	ND
Conclusion	-	PASS	PASS	PASS

Note / Key :

ND = Not detected "**>**" = Greater than NR = Not requested
% = percent g = gram(s)
mg/kg = milligram(s) per kilogram = ppm = part(s) per million
Detection Limit (mg/kg) : As : 2.5; Ba : 100; Cd : 7.5; Each (Cr, Hg, & Sb) : 6.0; Pb : 9.0; Se : 50

Remark :

- [C] denotes as reported result(s) was (were) adjusted by analytical correction shown in limit table.

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TEST RESULT

Migration of Certain Elements - European Parliament and Council Directive 2009/48/EC, Annex II, Part III, Point 13 with its Latest Amendment

Test Method : European Standard EN 71 Part 3: 2013 with Amendment A1: 2014, Section 8.

See Soluble Element (Parameter) and its corresponding Maximum Allowable Limit (Req.) in Result Table	**Type I**	**Dry, brittle, powder-like or pliable toy material**
	Type II	**Liquid or sticky toy material**
	Type III	**Scraped-off toy material**

-	Unit	Req.	Result		
Test Item(s)	-	-	1	2	3
Type	-	III	III	III	III
Parameter	-	-	-	-	-
Mass of Trace Amount	g	-	-	-	-
Aluminium (Al)	mg/kg	70000	ND	ND	ND
Antimony (Sb)	mg/kg	560	ND	ND	ND
Arsenic (As)	mg/kg	47	ND	ND	ND
Barium (Ba)	mg/kg	18750	ND	ND	ND
Boron (B)	mg/kg	15000	ND	ND	ND
Cadmium (Cd)	mg/kg	17	ND	ND	ND
Chromium III (Cr III)	mg/kg	460	ND	ND	ND
Chromium VI (Cr VI)	mg/kg	0.2	ND	ND	ND
Cobalt (Co)	mg/kg	130	ND	ND	ND
Copper (Cu)	mg/kg	7700	ND	ND	ND
Lead (Pb)	mg/kg	160	ND	ND	ND
Manganese (Mn)	mg/kg	15000	ND	ND	ND
Mercury (Hg)	mg/kg	94	ND	ND	ND
Nickel (Ni)	mg/kg	930	ND	ND	ND
Selenium (Se)	mg/kg	460	ND	ND	ND
Strontium (Sr)	mg/kg	56000	ND	ND	ND
Tin (Sn)	mg/kg	180000	ND	ND	ND
Organic tin	mg/kg	12	ND	ND	ND
Zinc (Zn)	mg/kg	46000	ND	ND	ND
Conclusion	-	-	PASS	PASS	PASS

Note / Key :

ND = Not detected
NR = Not requested
">" = Greater than
g = gram(s)
Req. = Requirement
INCON. = Inconclusive
mg/kg = milligram(s) per kilogram = ppm = part(s) per million
[ ] = Detection Limit by In House Ion Chromatography Analysis
{ } = Detection Limit by test method with reference to EN 71 Part 3: 2013 with Amendment A1: 2014, Annex G

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Detection Limit (mg/kg) :
For Type I - Al : 562.5; Sb : 4.5; As : 0.38; Ba : 150; B : 120; Cd : 0.13; Cr III : 3.75; Cr VI : 0.005 [0.002]; Co : 1.05; Cu : 62.25; Pb : 0.2; Mn : 120; Hg : 0.75; Ni : 7.5; Se : 3.75; Sr : 450; Sn : 1 500; Organic tin : 0.09 {0.04}; Zn : 375
For Type II - Al : 140.6; Sb : 1.13; As : 0.09; Ba : 37.5; B : 30; Cd : 0.03; Cr III : 0.94; Cr VI : 0.005 [0.002]; Co : 0.26; Cu : 15.6; Pb : 0.05; Mn : 30; Hg : 0.19; Ni : 1.88; Se : 0.94; Sr : 112.5; Sn : 375; Organic tin : 0.02 {0.04}; Zn : 93.8
For Type III - Al : 7 000; Sb : 56; As : 4.7; Ba : 1 875; B : 1 500; Cd : 1.7; Cr III : 46; Cr VI : 0.02 [0.002]; Co : 13; Cu : 770; Pb : 2.3; Mn : 1 500; Hg : 9.4; Ni : 93; Se : 46; Sr : 5 600; Sn : 18 000; Organic tin : 1.2 {2}; Zn : 4 600

Remark :

- Results of Cr III and Cr VI were reported as sum of soluble chromium content unless further verified.
- Result(s) of organic tin was (were) calculated by assuming the soluble tin content was wholly contributed from tributyltin (TBT) cation unless further specified.

END

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