



TEST REPORT

Kehua Trade Wenzhou Co., Ltd
1602 Huameng Business Sq, Luchen District,
Wenzhou, Zhejiang Province

Report No.: C60731961
UL Order No.: 13151696
Date: Dec.6,2019

Attn.: Jin Kaixin

SAMPLE DESCRIPTION	:	Plastic Pellet
STYLE NO.	:	KM-93
PO NO.	:	Not Provided
AGE GRADING	:	3+, 8+, Adult
COLOUR	:	colorless
APPLICANT	:	Kehua Trade Wenzhou Co., Ltd
MANUFACTURER	:	Not Provided
BUYER	:	Not Provided
COUNTRY OF ORIGIN	:	Not Provided
EXPORTED TO	:	Not Provided
TESTING LOCATION	:	UL VS Shanghai Limited Shenzhen Branch
DATE RECEIVED SAMPLES	:	Nov 26, 2019
DATE OF TEST	:	Nov 26, 2019 – Dec 06, 2019
RESULTS	:	Please refer to the following page(s)

CONCLUSION:

- | | |
|--|------|
| 1. Total Bisphenol A Content Test According To Client's Specification | Pass |
| 2. Total Phthalate Test As Per Client's Specification | Pass |
| 3. Determination Of 201 Candidate List Of Substance Of Very High Concern [Article 33 of Regulation (EC) no. 1907/2006 (REACH)] | Pass |
| 4. Total Phthalates Content [ROHS Directive 2015/863/EU Amending Directive 2011/65/EU Annex II] | Pass |
| 5. ROHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU
-Screening by X-ray fluorescence spectroscopy and confirmed by wet chemical method of Lead, Cadmium, Mercury, Chromium and Brominated flame retardants (PBB & PBDE) | Pass |

Note: The results relate only to the items tested.

For and on behalf of

UL VS Shanghai Limited Shenzhen Branch



Eric Wu - Engineering Manager
(Hardlines Testing)
B.W

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SZ-FAF-001 (2017-10-12)



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TEST RESULTS

Tested Sample ID	Product Description / Sample Group Desc.
001	Plastic Pellet
002	Transparent plastic(plastic pellet) (From 001)

1. Total Bisphenol A Content Test According To Client's Specification

Test Method: In-house method

Analyte	Requirement (Max.)	Reporting Limit	Sample, mg/kg
			002
Bisphenol A	0.1	0.1	ND
Rating			PASS
<i>Remark:</i> -All concentrations expressed in milligrams per kilogram of Tested Parts -“<” means less than; -“ND” (Not Detected) means less than reporting limit. -Method for determination of bisphenol A is determined by LC-MS-MS -The test results only apply to the items tested.			

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TEST RESULTS

2. Total Phthalate Test As Per Client's Specification
Test Method: CPSC-CH-C1001-09.4

Analyte	CAS No.	Requirement (Max.)	Reporting Limit	Sample, %
				002
Dibutyl phthalate (DBP)	84-74-2	0.1	0.005	ND
Benzyl butyl phthalate (BBP)	85-68-7	0.1	0.005	ND
Diethyl hexyl phthalate (DEHP)	117-81-7	0.1	0.005	ND
Di-n-octyl phthalate (DNOP)	117-84-0	0.1	0.005	ND
Di-(iso-nonyl) phthalate (DINP)	68515-48-0/ 28553-12-0	0.1	0.005	ND
Di-(iso-decyl) phthalate (DIDP)	68515-49-1/ 26761-40-0	0.1	0.005	ND
Diethyl phthalate (DEP)	84-66-2	0.1	0.005	ND
Dinonyl phthalate (DNP)	84-76-4	0.1	0.005	ND
Diphenyl Phthalate (DPhP)	53306-54-0	0.1	0.005	ND
Di-isobutyl phthalate (DIBP)	84-69-5	0.1	0.005	ND
Di-n-pentyl phthalate (DPP)	131-18-0	0.1	0.005	ND
Di-n-hexyl phthalate (DnHP)	84-75-3	0.1	0.005	ND
Dicyclohexyl phthalate (DCHP)	84-61-7	0.1	0.005	ND
Bis(2-methoxyethyl) phthalate (DMEP)	117-82-8	0.1	0.005	ND
Di-isopentylphthalate (DIPP)	605-50-5	0.1	0.005	ND
N-pentyl iso-pentylphthalate (PiPP)	776297-69-9	0.1	0.005	ND
1,2-Benzenedicarboxylic acid, di-C6-8- branched alkyl esters, C7-rich (DIHP)	71888-89-6	0.1	0.005	ND
1,2-Benzenedicarboxylic acid, di-C7-11- branched and linear alkyl esters (DHNUP)	68515-42-4	0.1	0.005	ND
Di-iso-octyl phthalate (DIOP)	27554-26-3	0.1	0.005	ND
Dimethyl phthalate (DMP)	131-11-3	0.1	0.005	ND
Di-n-propyl phthalate (DPrP)	131-16-8	0.1	0.005	ND
Bis(2-ethylhexyl) terephthalate (DEHTP)	6422-86-2	0.1	0.005	ND
1,2-Benzenedicarboxylic acid,dipentylester,branched and linear	84777-06-0	0.1	0.005	ND
1,2-Benzenedicarboxylic acid,dihexylester,branched and linear	68515-50-4	0.1	0.005	ND
Diallyl phthalate (DAP)	131-17-9	0.1	0.005	ND
Didecyl Phthalate (DDP)	84-77-5	0.1	0.005	ND
Diundecyl phthalate (DIUP)	996507-86-7	0.1	0.005	ND
Rating				PASS
Remark:				
-All concentrations expressed in percentage (%)				
-“<” means less than;				
-“ND” (Not Detected) means less than reporting limit.				
-Method for determination of Phthalates are determined by Gas Chromatography Mass Selective Detector (GC-MSD)				
-The test results only apply to the items tested.				

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TEST RESULTS

3. Determination Of 201 Candidate List Of Substance Of Very High Concern [Article 33 of Regulation (EC) no. 1907/2006 (REACH)]

Test Method : In-house method

No.	Analyte	Requirement (Max)	Sample,%
			A
1	1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo[12.2.1.16,9.02,13.05,10]octadeca-7,15-diene ("Dechlorane Plus"™)	0.1	<0.01
2	Benz[a]anthracene	0.1	<0.01
3	Cadmium carbonate	0.1	<0.01
4	Cadmium hydroxide	0.1	<0.01
5	Cadmium nitrate	0.1	<0.01
6	Chrysene	0.1	<0.01
7	Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP)	0.1	<0.01
8	Perfluorohexane-1-sulphonic acid and its salts	0.1	<0.01
9	4,4'-isopropylidenediphenol	0.1	<0.01
10	4-heptylphenol, branched and linear	0.1	<0.01
11	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	0.1	<0.01
12	p-(1,1-dimethylpropyl)phenol	0.1	<0.01
13	Benzo[def]chrysene (Benzo[a]pyrene)	0.1	<0.01
14	1,3-propanesultone	0.1	<0.01
15	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	0.1	<0.01
16	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	0.1	<0.01
17	Nitrobenzene	0.1	<0.01
18	Perfluorononan-1-oic-acid and its sodium and ammonium salts	0.1	<0.01
19	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters or mixed decyl and hexyl and octyl diesters	0.1	<0.01
20	5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2]	0.1	<0.01
21	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	0.1	<0.01
22	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	0.1	<0.01
23	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	0.1	<0.01
24	Cadmium fluoride	0.1	<0.01
25	Cadmium sulphate	0.1	<0.01
26	Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate and 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE and MOTE)	0.1	<0.01
27	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	0.1	<0.01
28	Cadmium chloride	0.1	<0.01
29	Sodium perborate	0.1	<0.01

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TEST RESULTS

No.	Analyte	Requirement (Max)	Sample, % A
30	Sodium perborate, perboric acid, sodium salt	0.1	<0.01
31	Cadmium sulphide	0.1	<0.01
32	Dihexyl phthalate	0.1	<0.01
33	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	0.1	<0.01
34	Disodium 4-amino-3-[[4'-[(2,4-diaminophenyl)azo]][1,1'-biphenyl]-4-yl]azo]-5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate (C.I. Direct Black 38)	0.1	<0.01
35	Imidazolidine-2-thione (2-imidazoline-2-thiol)	0.1	<0.01
36	Lead di(acetate)	0.1	<0.01
37	Trixylyl phosphate	0.1	<0.01
38	4-Nonylphenol, branched and linear, ethoxylated	0.1	<0.01
39	Ammonium pentadecafluorooctanoate (APFO)	0.1	<0.01
40	Cadmium	0.1	<0.01
41	Cadmium oxide	0.1	<0.01
42	Dipentyl phthalate (DPP)	0.1	<0.01
43	Pentadecafluorooctanoic acid (PFOA)	0.1	<0.01
44	1,2-Benzenedicarboxylic acid, dipentyl ester, branched and linear	0.1	<0.01
45	1,2-diethoxyethane	0.1	<0.01
46	1-bromopropane (n-propyl bromide)	0.1	<0.01
47	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	0.1	<0.01
48	4,4'-methylenedi-o-toluidine	0.1	<0.01
49	4,4'-oxydianiline	0.1	<0.01
50	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated	0.1	<0.01
51	4-aminoazobenzene	0.1	<0.01
52	4-methyl-m-phenylenediamine (toluene-2,4-diamine)	0.1	<0.01
53	4-Nonylphenol, branched and linear	0.1	<0.01
54	6-methoxy-m-toluidine (p-cresidine)	0.1	<0.01
55	[Phthalato(2-)]dioxotrilead	0.1	<0.01
56	Acetic acid, lead salt, basic	0.1	<0.01
57	Biphenyl-4-ylamine	0.1	<0.01
58	Bis(pentabromophenyl) ether (decabromodiphenyl ether) (DecaBDE)	0.1	<0.01
59	Cyclohexane-1,2-dicarboxylic anhydride	0.1	<0.01
60	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide)) (ADCA)	0.1	<0.01
61	Dibutyltin dichloride (DBTC)	0.1	<0.01
62	Diethyl sulphate	0.1	<0.01
63	Diisopentyl phthalate	0.1	<0.01
64	Dimethyl sulphate	0.1	<0.01
65	Dinoseb (6-sec-butyl-2,4-dinitrophenol)	0.1	<0.01
66	Dioxobis(stearato)trilead	0.1	<0.01
67	Fatty acids, C16-18, lead salts	0.1	<0.01
68	Furan	0.1	<0.01
69	Henicosfluoroundecanoic acid	0.1	<0.01

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TEST RESULTS

No.	Analyte	Requirement (Max)	Sample, % A
70	Heptacosafuorotetradecanoic acid	0.1	<0.01
71	Hexahydromethylphthalic anhydride	0.1	<0.01
72	Lead bis(tetrafluoroborate)	0.1	<0.01
73	Lead cyanamidate	0.1	<0.01
74	Lead dinitrate	0.1	<0.01
75	Lead monoxide (lead oxide)	0.1	<0.01
76	Lead oxide sulfate	0.1	<0.01
77	Lead titanium trioxide	0.1	<0.01
78	Lead titanium zirconium oxide	0.1	<0.01
79	Methoxyacetic acid	0.1	<0.01
80	Methyloxirane (Propylene oxide)	0.1	<0.01
81	N,N-dimethylformamide	0.1	<0.01
82	N-methylacetamide	0.1	<0.01
83	N-pentyl-isopentylphthalate	0.1	<0.01
84	o-aminoazotoluene	0.1	<0.01
85	o-toluidine	0.1	<0.01
86	Orange lead (lead tetroxide)	0.1	<0.01
87	Pentacosafuorotridecanoic acid	0.1	<0.01
88	Pentalead tetraoxide sulphate	0.1	<0.01
89	Pyrochlore, antimony lead yellow	0.1	<0.01
90	Silicic acid (H ₂ Si ₂ O ₅), barium salt (1:1), lead-doped	0.1	<0.01
91	Silicic acid, lead salt	0.1	<0.01
92	Sulfurous acid, lead salt, dibasic	0.1	<0.01
93	Tetraethyllead	0.1	<0.01
94	Tetralead trioxide sulphate	0.1	<0.01
95	Tricosafuorododecanoic acid	0.1	<0.01
96	Trilead bis(carbonate) dihydroxide	0.1	<0.01
97	Trilead dioxide phosphonate	0.1	<0.01
98	1,2-bis(2-methoxyethoxy)ethane (TEGDME, triglyme)	0.1	<0.01
99	1,2-dimethoxyethane, ethylene glycol dimethyl ether (EGDME)	0.1	<0.01
100	1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione (TGIC)	0.1	<0.01
101	1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione (β-TGIC)	0.1	<0.01
102	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol	0.1	<0.01
103	4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	0.1	<0.01
104	[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3)	0.1	<0.01
105	[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26)	0.1	<0.01
106	Diboron trioxide	0.1	<0.01
107	Formamide	0.1	<0.01
108	Lead(II) bis(methanesulfonate)	0.1	<0.01
109	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	0.1	<0.01

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No.	Analyte	Requirement (Max)	Sample.% A
110	α,α -Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4)	0.1	<0.01
111	1,2-dichloroethane	0.1	<0.01
112	2,2'-dichloro-4,4'-methylenedianiline	0.1	<0.01
113	2-Methoxyaniline, o-Anisidine	0.1	<0.01
114	4-(1,1,3,3-tetramethylbutyl)phenol	0.1	<0.01
115	Aluminosilicate Refractory Ceramic Fibres	0.1	<0.01
116	Arsenic acid	0.1	<0.01
117	Bis(2-methoxyethyl) ether	0.1	<0.01
118	Bis(2-methoxyethyl) phthalate	0.1	<0.01
119	Calcium arsenate	0.1	<0.01
120	Dichromium tris(chromate)	0.1	<0.01
121	Formaldehyde, oligomeric reaction products with aniline	0.1	<0.01
122	Lead diazide, Lead azide	0.1	<0.01
123	Lead dipicrate	0.1	<0.01
124	Lead styphnate	0.1	<0.01
125	N,N-dimethylacetamide	0.1	<0.01
126	Pentazinc chromate octahydroxide	0.1	<0.01
127	Phenolphthalein	0.1	<0.01
128	Potassium hydroxyoctaoxidizincatedichromate	0.1	<0.01
129	Trilead diarsenate	0.1	<0.01
130	Zirconia Aluminosilicate Refractory Ceramic Fibres	0.1	<0.01
131	1,2,3-trichloropropane	0.1	<0.01
132	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	0.1	<0.01
133	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	0.1	<0.01
134	1-Methyl-2-pyrrolidone (NMP)	0.1	<0.01
135	2-ethoxyethyl acetate	0.1	<0.01
136	Hydrazine	0.1	<0.01
137	Strontium chromate	0.1	<0.01
138	2-ethoxyethanol	0.1	<0.01
139	2-methoxyethanol	0.1	<0.01
140	Acids generated from chromium trioxide and their oligomers	0.1	<0.01
141	Chromium trioxide	0.1	<0.01
142	Cobalt(II) carbonate	0.1	<0.01
143	Cobalt(II) diacetate	0.1	<0.01
144	Cobalt(II) dinitrate	0.1	<0.01
145	Cobalt(II) sulphate	0.1	<0.01
146	Ammonium dichromate	0.1	<0.01
147	Boric acid	0.1	<0.01
148	Disodium tetraborate, anhydrous	0.1	<0.01
149	Potassium chromate	0.1	<0.01
150	Potassium dichromate	0.1	<0.01
151	Sodium chromate	0.1	<0.01

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SZ-FAF-001 (2017-10-12)



TEST REPORT

Kehua Trade Wenzhou Co., Ltd
 1602 Huameng Business Sq, Luchen District,
 Wenzhou, Zhejiang Province

Report No.: C60731961
 UL Order No.: 13151696
 Date: Dec.6,2019

TEST RESULTS

No.	Analyte	Requirement (Max)	Sample, % A
152	Tetraboron disodium heptaoxide, hydrate	0.1	<0.01
153	Trichloroethylene	0.1	<0.01
154	Acrylamide	0.1	<0.01
155	2,4-dinitrotoluene	0.1	<0.01
156	Anthracene oil	0.1	<0.01
157	Anthracene oil, anthracene paste	0.1	<0.01
158	Anthracene oil, anthracene paste, anthracene fraction	0.1	<0.01
159	Anthracene oil, anthracene paste, distrn. lights	0.1	<0.01
160	Anthracene oil, anthracene-low	0.1	<0.01
161	Diisobutyl phthalate	0.1	<0.01
162	Lead chromate	0.1	<0.01
163	Lead chromate molybdate sulphate red (C.I. Pigment Red 104)	0.1	<0.01
164	Lead sulfochromate yellow (C.I. Pigment Yellow 34)	0.1	<0.01
165	Pitch, coal tar, high-temp.	0.1	<0.01
166	Tris(2-chloroethyl) phosphate	0.1	<0.01
167	4,4'- Diaminodiphenylmethane (MDA)	0.1	<0.01
168	5-tert-butyl-2,4,6-trinitro-m-xylene (Musk xylene)	0.1	<0.01
169	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	0.1	<0.01
170	Anthracene	0.1	<0.01
171	Benzyl butyl phthalate (BBP)	0.1	<0.01
172	Bis (2-ethylhexyl)phthalate (DEHP)	0.1	<0.01
173	Bis(tributyltin) oxide (TBTO)	0.1	<0.01
174	Cobalt dichloride	0.1	<0.01
175	Diarsenic pentaoxide	0.1	<0.01
176	Diarsenic trioxide	0.1	<0.01
177	Dibutyl phthalate (DBP)	0.1	<0.01
178	Hexabromocyclododecane (HBCDD)	0.1	<0.01
179	Lead hydrogen arsenate	0.1	<0.01
180	Sodium dichromate	0.1	<0.01
181	Triethyl arsenate	0.1	<0.01
182	Benzene-1,2,4-tricarboxylic acid 1,2 anhydride (trimellitic anhydride)	0.1	<0.01
183	Dicyclohexyl phthalate (DCHP)	0.1	<0.01
184	Benzo[ghi]perylene	0.1	<0.01
185	Decamethylcyclopentasiloxane (D5)	0.1	<0.01
186	Dodecamethylcyclohexasiloxane (D6)	0.1	<0.01
187	Disodium octaborate	0.1	<0.01
188	Ethylenediamine	0.1	<0.01
189	Lead	0.1	<0.01
190	Octamethylcyclotetrasiloxane (D4)	0.1	<0.01
191	Terphenyl hydrogenated	0.1	<0.01
192	2,2-bis(4'-hydroxyphenyl)-4-methylpentane	0.1	<0.01
193	Benzo[k]fluoranthene	0.1	<0.01
194	Fluoranthene	0.1	<0.01
195	Phenanthrene	0.1	<0.01

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SZ-FAF-001 (2017-10-12)



TEST REPORT

Kehua Trade Wenzhou Co., Ltd
 1602 Huameng Business Sq, Luchen District,
 Wenzhou, Zhejiang Province

Report No.: C60731961
 UL Order No.: 13151696
 Date: Dec.6,2019

TEST RESULTS

No.	Analyte	Requirement (Max)	Sample.% A
196	Pyrene	0.1	<0.01
197	1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one	0.1	<0.01
198	Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with $\geq 0.1\%$ w/w of 4-nonylphenol, branched and linear (4-NP)	0.1	<0.01
199	4-tert-butylphenol	0.1	<0.01
200	2-methoxyethyl acetate	0.1	<0.01
201	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides	0.1	<0.01
Rating			PASS
<i>Remark:</i> -All concentrations expressed in percentage of tested parts -“<” means less than -Method for determination of analyte are determined by GC-MSD, ICP-OES, LC-MS-MS & UV-VIS Spectroscopy respectively. -The test results only apply to the items tested. -The metallic compounds were tested in term of their composing elements (i.e. Arsenic, Chromium, Cobalt, Lead, Tin, Aluminum, Silicon, Zirconium, Boron, Strontium, Zinc, Antimony, Barium, Titanium and Cadmium). The amount of metallic compounds were calculated by means of molecular conversion from its metal amount obtained. Additional information such as bill of substances (BOS) may need to provide for further review if the amount of metallic compounds exceed 0.1%. -When the SVHC concentrations of an article do not exceed 0.1%, the legal notification obligations to ECHA are not applicable. When the SVHC concentrations of an article exceed 0.1%, the legal notification obligations to ECHA should be further studied, depending on the annual quantities of the SVHC in the articles of the manufacturer/ importer.			
Component ID		Tested Part ID	
A		002	

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SZ-FAF-001 (2017-10-12)



TEST REPORT

Kehua Trade Wenzhou Co., Ltd
1602 Huameng Business Sq, Luchen District,
Wenzhou, Zhejiang Province

Report No.: C60731961
UL Order No.: 13151696
Date: Dec.6,2019

TEST RESULTS

4. Total Phthalates Content [ROHS Directive 2015/863/EU Amending Directive 2011/65/EU Annex II]

Test Method: IEC 62321-8: 2017

<u>Analyte</u>	<u>CAS No.</u>	<u>Requirement (Max.)</u>	<u>Reporting Limit</u>	<u>Sample, %</u>
				<u>002</u>
Dibutyl Phthalate, DBP	84-74-2	0.1	0.005	<0.005
Benzyl Butyl Phthalate, BBP	85-68-7	0.1	0.005	<0.005
Diethylhexyl Phthalate, DEHP	117-81-7	0.1	0.005	<0.005
Diisobutyl Phthalate, DIBP	84-69-5	0.1	0.005	<0.005
Rating				PASS
<i>Remark:</i> -All concentrations expressed in percentage (%) -“<” means less than -Method for determination of Phthalates are determined by Gas Chromatography Mass Selective Detector (GC-MSD) -The test results only apply to the items tested.				

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SZ-FAF-001 (2017-10-12)



TEST REPORT

Kehua Trade Wenzhou Co., Ltd
1602 Huameng Business Sq, Luchen District,
Wenzhou, Zhejiang Province

Report No.: C60731961
UL Order No.: 13151696
Date: Dec.6,2019

TEST RESULTS

**5. ROHS DIRECTIVE (EU) 2015/863 AMENDING ANNEX II TO DIRECTIVE 2011/65/EU
-SCREENING BY X-RAY FLUORESCENCE SPECTROSCOPY AND CONFIRMED BY WET CHEMICAL METHOD
OF LEAD, CADMIUM, MERCURY, CHROMIUM AND BROMINATED FLAME RETARDANTS (PBB & PBDE)**

TESTED MATERIAL	SCHEME	TARGET RoHS SUBSTANCES	TEST METHOD USED	XRF RESULT (in mg/kg)	CHEMICAL TEST RESULT (in mg/kg)
1	1	All	XRF	Cd: N.D	N/T
				Cr: N.D	
				Pb: N.D	
				Hg: N.D	
				Br: N.D	

Remark: in the following pages in this report:

- RL = Reporting Limits
- N.D = Not Detected (<RL)
- Detected = below the lower screening limit of table (a) and pass
- Mg/kg = parts per million = ppm
- N/T = Not teste

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SZ-FAF-001 (2017-10-12)



TEST REPORT

Kehua Trade Wenzhou Co., Ltd
1602 Huameng Business Sq, Luchen District,
Wenzhou, Zhejiang Province

Report No.: C60731961
UL Order No.: 13151696
Date: Dec.6,2019

TEST METHODS:

- (1) Sample prepared with reference to IEC 62321-2 Ed1.0:2013 Determination of certain substances in electrotechnical products – Part 2: Disassembly, disjunction and mechanical sample preparation;
- (2) Sample Screening testing with reference to IEC 62321-3-1 Ed1.0:2013 Determination of certain substances in electrotechnical products – Part 3-1: Screening – Lead, mercury, Cadmium, total chromium and total bromine using X-ray fluorescence spectrometry;
- (a) It is the result on total Br while test item on restricted substances is PBBs/PBDEs. It is the result on total Cr while test item on restricted substances is Cr⁶⁺.
- (b) Results are obtained by XRF for primary screening, and further chemical testing by ICP-OES(for Cd, Pb, Hg), UV-Vis(for Cr⁶⁺) and GC/MS(for PBBs, PBDEs) is recommended to be performed.
XRF screening limits in mg/kg for regulated elements according to IEC 62321-3-1 Ed1.0:2013

ELEMENT	POLYMER	METALS	COMPOSITE MATERIAL
Cd	BL≤(70-3σ) <X<(130+3σ) ≤OL	BL≤(70-3σ) <X<(130+3σ) ≤OL	LOD < X < (150+3σ) ≤ OL
Pb	BL≤(700-3σ) <X<(1300+3σ) ≤OL	BL≤(700-3σ) <X<(1300+3σ) ≤OL	BL≤(500-3σ) <X<(1500+3σ) ≤OL
Hg	BL≤(700-3σ) <X<(1300+3σ) ≤OL	BL≤(700-3σ) <X<(1300+3σ) ≤OL	BL≤(500-3σ) <X<(1500+3σ) ≤OL
Cr	BL≤(700-3σ) <X	BL≤(700-3σ) <X	BL≤(500-3σ) <X
Br	BL≤(300-3σ) <X	--	BL≤(250-3σ) <X

Note: BL = Below Limit, OL = Over Limit, LOD = Limit of Detection, -- = Not Regulated

The XRF screening test for RoHS elements – The reading may be different to the actual content in the sample be of non-uniformity composition.

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SZ-FAF-001 (2017-10-12)



TEST REPORT

Kehua Trade Wenzhou Co., Ltd
1602 Huameng Business Sq, Luchen District,
Wenzhou, Zhejiang Province

Report No.: C60731961
UL Order No.: 13151696
Date: Dec.6,2019

TEST METHODS:

(3) Wet Chemical Test Method

TESTING ITEM	CHEMICAL TESTING METHOD	RL	LIMIT
Cd	With reference to IEC 62321-5 Ed1.0:2013, by acid digestion and determined by ICP-OES	2.0mg/kg	100mg/kg
Pb	With reference to IEC 62321-5 Ed1.0:2013, by acid digestion and determined by ICP-OES	2.0mg/kg	1000mg/kg
Hg	With reference to IEC 62321-4 Ed1.0:2013, by acid digestion and determined by ICP-OES	2.0mg/kg	1000mg/kg
Cr ⁶⁺ (for non-metal)	With reference to IEC 62321-7-2 Ed1.0:2017, by the colorimetric method	1.0mg/kg	1000mg/kg
Cr ⁶⁺ (for metal)	With reference to IEC 62321-7-1 Ed1.0:2015 by the colorimetric method	5.0mg/kg	1000mg/kg
PBBs Content	With reference to IEC 62321-6 Ed1.0:2015, by solvent extraction and determined by GC-MSD	5.0mg/kg	1000mg/kg
PBDEs Content	With reference to IEC 62321-6 Ed1.0:2015, by solvent extraction and determined by GC-MSD	5.0mg/kg	1000mg/kg
DEHP,BBP,DBP, DIBP	With reference to IEC 62321-8 Ed1.0:2017 by gas chromatography-mass spectrometry	5.0mg/kg	1000mg/kg

Note: According to IEC 62321-7-1 Ed1.0:2015, result on Cr⁶⁺ for metal sample is shown as ND/ Actual data

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SZ-FAF-001 (2017-10-12)



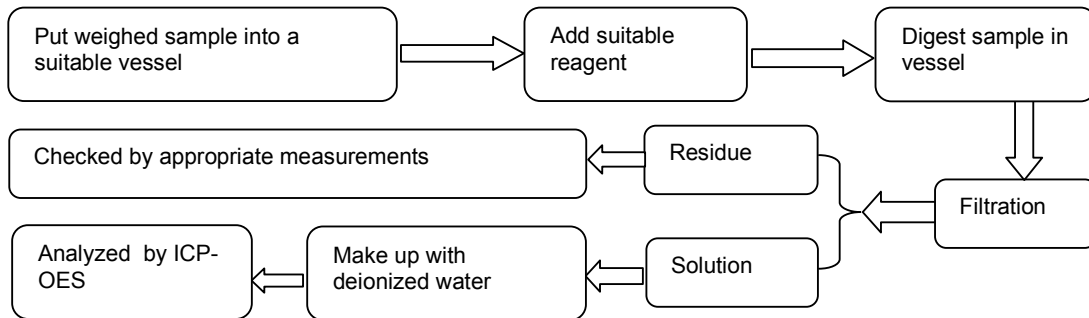
TEST REPORT

Kehua Trade Wenzhou Co., Ltd
1602 Huameng Business Sq, Luchen District,
Wenzhou, Zhejiang Province

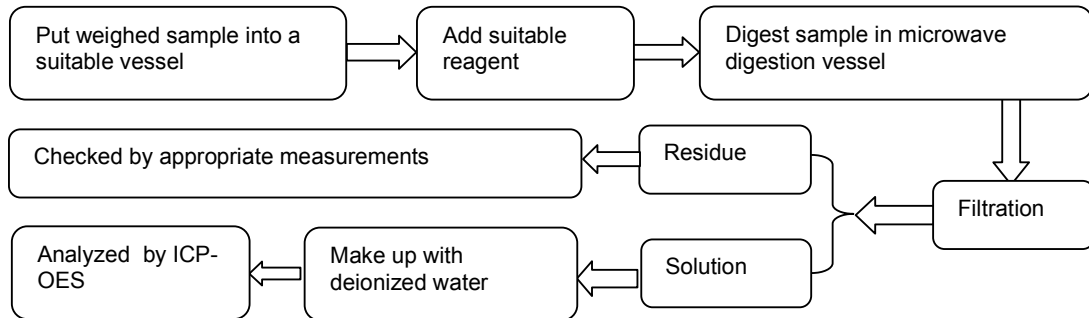
Report No.: C60731961
UL Order No.: 13151696
Date: Dec.6,2019

TEST PROCESS

1. Test for Lead (Pb), Cadmium (Cd) contents(IEC 62321-5 Ed1.0:2013):



2. Test for Mercury (Hg) contents (IEC 62321-4 Ed1.0:2013):



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SZ-FAF-001 (2017-10-12)



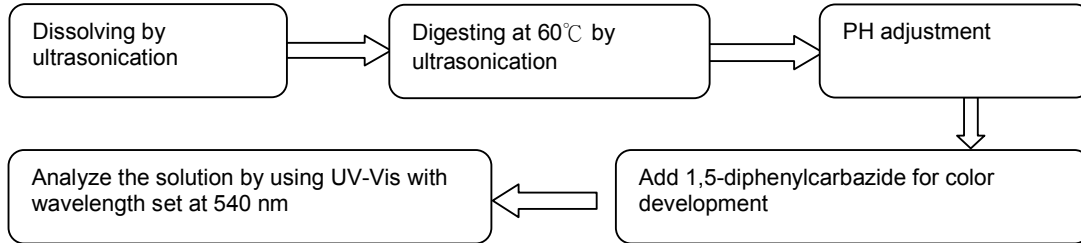
TEST REPORT

Kehua Trade Wenzhou Co., Ltd
1602 Huameng Business Sq, Luchen District,
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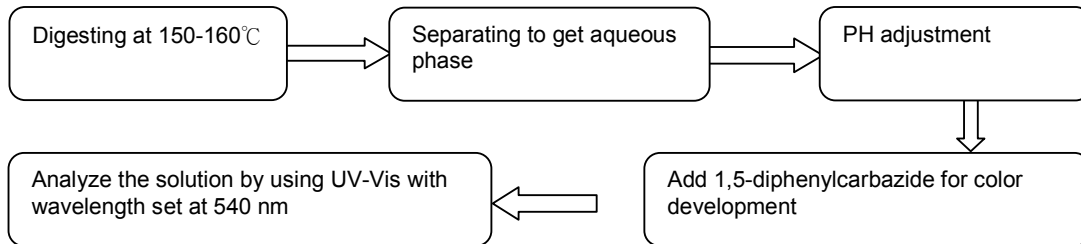
Report No.: C60731961
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TEST PROCESS

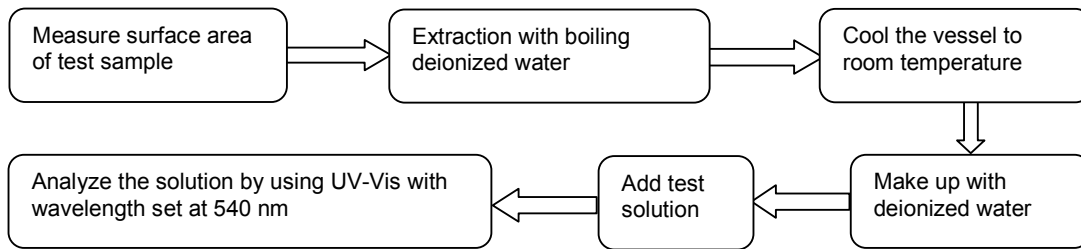
3. Test for Nonmetallic Materials Chromium(Cr(VI)) contents (IEC 62321-7-2 Ed1.0:2017): 3.1 ABS/PC/PVC



3.2 others



4. Test for metal Chromium(Cr(VI)) contents (IEC 62321-7-1 Ed1.0:2015):



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SZ-FAF-001 (2017-10-12)



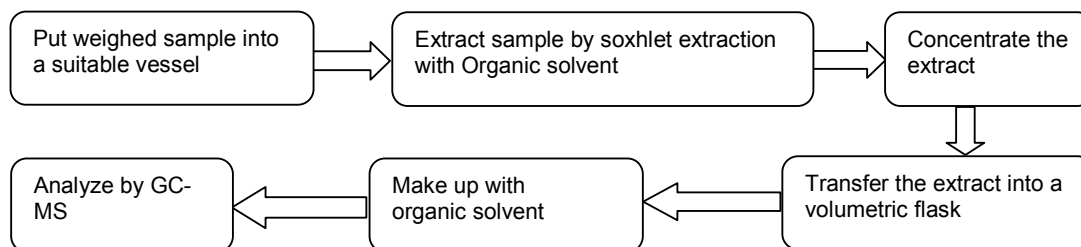
TEST REPORT

Kehua Trade Wenzhou Co., Ltd
1602 Huameng Business Sq, Luchen District,
Wenzhou, Zhejiang Province

Report No.: C60731961
UL Order No.: 13151696
Date: Dec.6,2019

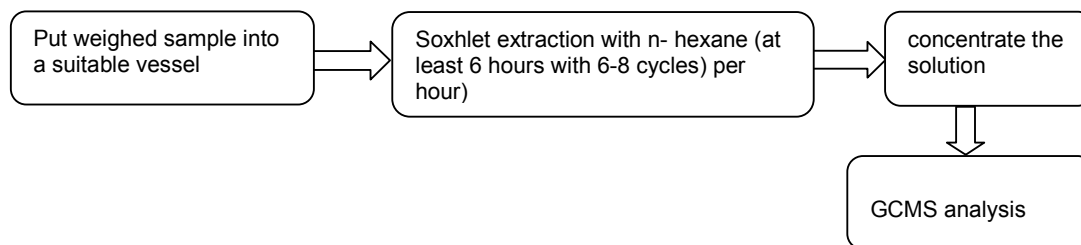
TEST PROCESS

5. Test for PBBs & PBDEs contents (IEC 62321-6 Ed1.0:2015):

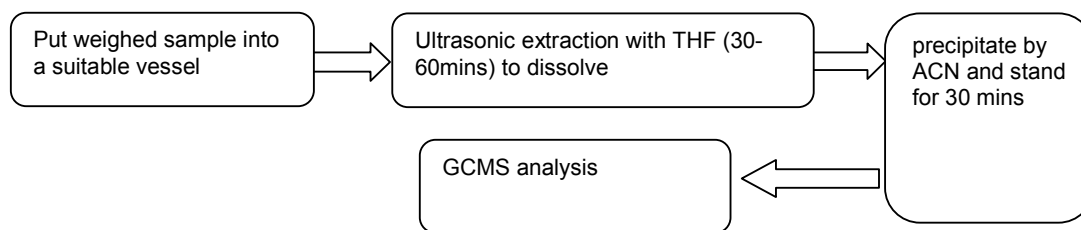


6. Test for Phthalate content (DEHP,BBP,DBP,DIBP) (IEC 62321-8 Ed1.0:2017):

6.1 Test for general polymer



6.2 Test for THF soluble polymer



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TEST REPORT

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TEST RESULTS

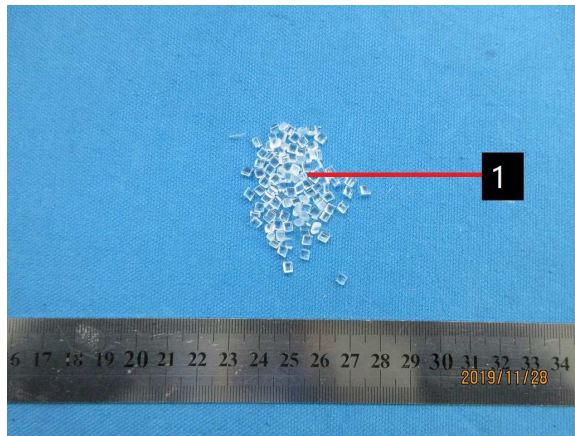
(I) Sample description:

(1) Transplant plastic grain

(II) Photo(s) of test sample(s):



(Whole product)



***** Page 17 of 18 *****

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TEST REPORT

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PRODUCT PHOTO:



***** End of Report *****

***** Page 18 of 18 *****

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SZ-FAF-001 (2017-10-12)

UL VS Shanghai Limited Shenzhen Branch
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