

Test Report No.: SHHL2001000671OT Date: JAN. 14, 2020 Page: 1 of 56

CHANGZHOU HUAWEI ELECTRONIC CO., LTD

ZOUQU TOWN, CHANGZHOU CITY, JIANGSU PROVINCE, CHINA

Sample Description : ALUMINIUM ELECTROLYTIC CAPACITOR (SNAP-IN &

SCREW)

Sample Receiving Date : DEC. 24, 2019

Testing Period : DEC. 24, 2019 TO JAN. 14, 2020

Test Performed : SELECTED TEST(S) AS REQUESTED BY APPLICANT

Test Requested : 1. ANTIMONY (SB)

2. ROHS DIRECTIVE (EU) 2015/863 AMENDING ANNEX

II TO DIRECTIVE 2011/65/EU

3. ROHS DIRECTIVE (EU) 2015/863 AMENDING ANNEX

II TO DIRECTIVE 2011/65/EU

4. HALOGEN

5. PHTHALATES CONTENT

Test Result(s) : FOR FURTHER DETAILS, PLEASE REFER TO THE

FOLLOWING PAGE(S)

Result Summary:

Test Requested	Conclusion
ANTIMONY (SB)	SEE RESULTS
ROHS DIRECTIVE (EU) 2015/863 AMENDING ANNEX II TO DIRECTIVE 2011/65/EU	PASS
ROHS DIRECTIVE (EU) 2015/863 AMENDING ANNEX II TO DIRECTIVE 2011/65/EU	PASS
HALOGEN	SEE RESULTS
PHTHALATES CONTENT	SEE RESULTS



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Signed for and on behalf of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

10 lbert

Albert Li Authorized Signatory



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Test Conducted:

Test Part Description:

Specimen No.	SGS Sample ID	Description
SN1	SHA19-286483.001	Silvery metal sheet
SN2	SHA19-286483.002	Silvery metal sheet
SN3	SHA19-286483.003	Silvery metal shell

Remarks:

- (1) 1 mg/kg = 0.0001%
- (2) MDL = Method Detection Limit (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated

Antimony (Sb)

Test Method: With reference to US EPA Method 3050B:1996, analysis was performed by ICP-OES.

Test Item(s)	<u>Unit</u>	MDL	<u>001</u>	<u>002</u>	<u>003</u>
Antimony (Sb)	mg/kg	10	ND	ND	ND



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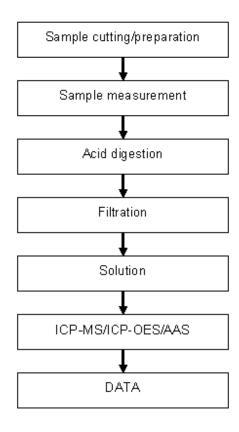


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ATTACHMENTS

Elements Testing Flow Chart





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Test Part Description:

Specimen No.	SGS Sample ID	Description
SN1	SHA19-286496.001	Black plastic band
SN2	SHA19-286496.002	Black plastic band
SN3	SHA19-286496.003	White paint
SN4	SHA19-286496.004	Transparent soft plastic adhesive tape
SN5	SHA19-286496.005	Beige paper
SN6	SHA19-286496.006	Transparent liquid
SN7	SHA19-286496.007	Silvery metal sheet
SN8	SHA19-286496.008	Silvery metal sheet
SN9	SHA19-286496.009	Silvery metal shell
SN10	SHA19-286496.010	Silvery metal lead tab
SN11	SHA19-286496.011	Black plastic round washer
SN12	SHA19-286496.012	Silvery metal screw
SN13	SHA19-286496.013	Silvery metal nut
SN14	SHA19-286496.014	Blue soft plastic part
SN15	SHA19-286496.015	Black plastic plate
SN16	SHA19-286496.016	Black soft plastic collar
SN17	SHA19-286496.017	White solid

Remarks:

- (1) 1 mg/kg = 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: With reference to IEC 62321-4:2013+AMD1:2017, IEC62321-5:2013, IEC62321-7-2:2017, IEC 62321-6:2015 and IEC62321-8:2017, analyzed by ICP-OES, UV-Vis and GC-MS.

Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>	<u>002</u>	<u>003</u>
Cadmium (Cd)	100	mg/kg	2	ND	ND	ND
Lead (Pb)	1000	mg/kg	2	ND	ND	ND
Mercury (Hg)	1000	mg/kg	2	ND	ND	ND
Hexavalent Chromium (Cr(VI))	1000	mg/kg	8	ND	ND	
ND						
Sum of PBBs	1000	mg/kg	-	ND	ND	ND
Monobromobiphenyl	-	mg/kg	5	ND	ND	ND
Dibromobiphenyl	-	mg/kg	5	ND	ND	ND
Tribromobiphenyl	-	mg/kg	5	ND	ND	ND
Tetrabromobiphenyl	-	mg/kg	5	ND	ND	ND
Pentabromobiphenyl	-	mg/kg	5	ND	ND	ND
Hexabromobiphenyl	-	mg/kg	5	ND	ND	ND



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Heptabromobiphenyl		-	mg/kg	5	ND	ND	ND
Octabromobiphenyl		-	mg/kg	5	ND	ND	ND
Nonabromobiphenyl		-	mg/kg	5	ND	ND	ND
Decabromobiphenyl		-	mg/kg	5	ND	ND	ND
Sum of PBDEs		1000	mg/kg	-	ND	ND	ND
Monobromodiphenyl ether		-	mg/kg	5	ND	ND	ND
Dibromodiphenyl ether		-	mg/kg	5	ND	ND	ND
Tribromodiphenyl ether		-	mg/kg	5	ND	ND	ND
Tetrabromodiphenyl ether		-	mg/kg	5	ND	ND	ND
Pentabromodiphenyl ether		-	mg/kg	5	ND	ND	ND
Hexabromodiphenyl ether		-	mg/kg	5	ND	ND	ND
Heptabromodiphenyl ether		-	mg/kg	5	ND	ND	ND
Octabromodiphenyl ether		-	mg/kg	5 5	ND ND	ND ND	ND ND
Nonabromodiphenyl ether Decabromodiphenyl ether		-	mg/kg mg/kg	5	ND	ND	ND
Di-butyl Phthalate (DBP)		1000	mg/kg	50	ND	ND	ND
Benzyl Butyl Phthalate (BBF)	1000	mg/kg	50 50	ND	ND	ND
Di-2-Ethyl Hexyl Phthalate (,	1000	mg/kg	50	ND	ND	ND
Diisobutyl Phthalates (DIBP		1000	mg/kg	50	ND	ND	ND
, , , , , , , , , , , , , , , , , , ,	,						
Test Item(s)		<u>Limit</u>	<u>Unit</u>	MDL 0	<u>004</u>	<u>005</u>	<u>006</u>
Cadmium (Cd)		100	mg/kg	2	ND	ND	ND ND
Lead (Pb)		1000 1000	mg/kg	2 2	ND ND	ND ND	ND ND
Mercury (Hg) Hexavalent Chromium (Cr(\	/I))	1000	mg/kg mg/kg	8	ND ND	ND ND	ND
Sum of PBBs	(1))	1000	mg/kg	-	ND	ND	ND
Monobromobiphenyl		-	mg/kg	5	ND	ND	ND
Dibromobiphenyl		_	mg/kg	5	ND	ND	ND
Tribromobiphenyl		_	mg/kg	5	ND	ND	ND
Tetrabromobiphenyl		-	mg/kg	5	ND	ND	ND
Pentabromobiphenyl		-	mg/kg	5	ND	ND	ND
Hexabromobiphenyl		-	mg/kg	5	ND	ND	ND
Heptabromobiphenyl		-	mg/kg	5	ND	ND	ND
Octabromobiphenyl		-	mg/kg	5	ND	ND	ND
Nonabromobiphenyl		-	mg/kg	5	ND	ND	ND
Decabromobiphenyl		-	mg/kg	5	ND	ND	ND
Sum of PBDEs		1000	mg/kg	-	ND	ND	ND
Monobromodiphenyl ether		-	mg/kg	5	ND	ND	ND
Dibromodiphenyl ether		-	mg/kg	5	ND	ND	ND
Tribromodiphenyl ether		-	mg/kg	5	ND	ND	ND
Tetrabromodiphenyl ether		-	mg/kg	5	ND	ND	ND
Pentabromodiphenyl ether		-	mg/kg	5	ND	ND	ND
Hexabromodiphenyl ether		-	mg/kg	5	ND	ND	ND
Heptabromodiphenyl ether Octabromodiphenyl ether		-	mg/kg	5 5	ND	ND	ND
Nonabromodiphenyl ether		-	mg/kg	5 5	ND ND	ND ND	ND ND
Nonabiomodiphenyi ether		-	mg/kg	S	טאו	שאו	טוו



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Test Report	No.: SHHL20010	000671OT	Date	: JAN. 14	, 2020	Page: 7 of	f 56
Decabromodiphenyl ether Di-butyl Phthalate (DBP) Benzyl Butyl Phthalate (BBP Di-2-Ethyl Hexyl Phthalate (I Diisobutyl Phthalates (DIBP)	DEHP)	1000 1000 1000 1000	mg/kg mg/kg mg/kg mg/kg mg/kg	5 50 50 50 50	ND ND ND ND	ND ND ND ND	ND ND ND ND
Test Item(s) Cadmium (Cd) Lead (Pb) Mercury (Hg) Hexavalent Chromium (Cr(V Sum of PBBs Monobromobiphenyl Dibromobiphenyl Tribromobiphenyl Tetrabromobiphenyl Pentabromobiphenyl Hexabromobiphenyl Hexabromobiphenyl Nonabromobiphenyl Nonabromobiphenyl Sum of PBDEs Monobromodiphenyl ether Tribromodiphenyl ether Tribromodiphenyl ether Tetrabromodiphenyl ether Tetrabromodiphenyl ether Pentabromodiphenyl ether Hexabromodiphenyl ether Hexabromodiphenyl ether Hoctabromodiphenyl ether Heptabromodiphenyl ether Dibutyl Phthalate (DBP) Benzyl Butyl Phthalate (BBP) Di-2-Ethyl Hexyl Phthalate (DIBP)) DEHP)	Limit 100 1000 1000 1000 1000 1000 1000 1000 - 1000 1000 1000 1000	Unit mg/kg	MDL 2 2 2 8 - 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	$\frac{O11}{N} \stackrel{5}{\sim} \stackrel{1}{\sim} $	014 ND ND N	015 ND ND DD D
Test Item(s) Cadmium (Cd) Lead (Pb) Mercury (Hg) Hexavalent Chromium (Cr(V Sum of PBBs Monobromobiphenyl	l)))	Limit 100 1000 1000 1000 1000	Unit mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	MDL 2 2 2 8 - 5	016 ND 16 ND ND ND ND	O17 ND ND ND ND ND ND	



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Test Report	No.: SHHL2001000671OT	Date	e: JAN. 1	4, 2020	Page: 8 of 56
Dibromobiphenyl	-	mg/kg	5	ND	ND
Tribromobiphenyl	-	mg/kg	5	ND	ND
Tetrabromobiphenyl	-	mg/kg	5	ND	ND
Pentabromobiphenyl	-	mg/kg	5	ND	ND
Hexabromobiphenyl	-	mg/kg	5	ND	ND
Heptabromobiphenyl	-	mg/kg	5	ND	ND
Octabromobiphenyl	-	mg/kg	5	ND	ND
Nonabromobiphenyl	-	mg/kg	5	ND	ND
Decabromobiphenyl	-	mg/kg	5	ND	ND
Sum of PBDEs	1000	mg/kg	-	ND	ND
Monobromodiphenyl ether	-	mg/kg	5	ND	ND
Dibromodiphenyl ether	-	mg/kg	5	ND	ND
Tribromodiphenyl ether	-	mg/kg	5	ND	ND
Tetrabromodiphenyl ether	-	mg/kg	5	ND	ND
Pentabromodiphenyl ether	-	mg/kg	5	ND	ND
Hexabromodiphenyl ether	-	mg/kg	5	ND	ND
Heptabromodiphenyl ether	-	mg/kg	5	ND	ND
Octabromodiphenyl ether	-	mg/kg	5	ND	ND
Nonabromodiphenyl ether	-	mg/kg	5	ND	ND
Decabromodiphenyl ether	-	mg/kg	5	ND	ND
Di-butyl Phthalate (DBP)	1000	mg/kg	50	ND	ND
Benzyl Butyl Phthalate (BBP)		mg/kg	50	ND	ND
Di-2-Ethyl Hexyl Phthalate (D		mg/kg	50	ND	ND
Diisobutyl Phthalates (DIBP)	1000	mg/kg	50	ND	ND

Notes:

- (1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863. IEC 62321 series is equivalent to EN 62321 series https://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP_ORG_ID,FSP_LANG_ID: 1258637,25
- (2) The restriction of DEHP, BBP, DBP and DIBP shall apply to medical devices, including in vitro medical devices, and monitoring and control instruments, including industrial monitoring and control instruments, from 22 July 2021.
- (3) The restriction of DEHP, BBP, DBP and DIBP shall not apply to toys which are already subject to the restriction of DEHP, BBP, DBP and DIBP through entry 51 of Annex XVII to Regulation (EC) No 1907/2006.

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

Test Method : With reference to IEC 62321-4:2013+AMD1:2017, IEC62321-5:2013 and IEC62321-7-1:2015, analyzed by ICP-OES and UV-Vis .

Test Item(s)	<u>Limit</u>	<u>Unit</u>	MDL	<u>007</u>	800	<u>009</u>
Cadmium (Cd)	100	mg/kg	2	ND	ND	ND
Lead (Pb)	1000	mg/kg	2	ND	24	9
Mercury (Hg)	1000	mg/kg	2	ND	ND	ND



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Test Report	No.: SHHL2001000	671OT	Date: JAN. 14, 2020			Page: 9 of 56		
Hexavalent Chromium (Cr(V	I))▼	-	µg/cm²	0.10	ND	ND	ND	
Test Item(s) Cadmium (Cd) Lead (Pb) Mercury (Hg) Hexavalent Chromium (Cr(V	I)) ▼	<u>Limit</u> 100 1000 1000	Unit mg/kg mg/kg mg/kg µg/cm²	MDL 2 2 2 2 0.10	010 ND ND ND ND	012 ND 37 ND ND	013 ND 7 ND ND	

Notes:

- (1)The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863. IEC 62321 series is equivalent to EN 62321 series https://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP_ORG_ID ,FSP_LANG _ID:1258637,25
- (2) ▼ = a. The sample is positive for CrVI if the CrVI concentration is greater than 0.13 µg/cm². The sample coating is considered to contain CrVI
 - b. The sample is negative for CrVI if CrVI is ND (concentration less than $0.10~\mu g/cm^2$). The coating is considered a non-CrVI based coating
 - c. The result between 0.10 µg/cm² and 0.13 µg/cm² is considered to be inconclusive unavoidable coating variations may influence the determination Information on storage conditions and production date of the tested sample is unavailable and thus Cr(VI) results represent status of the sample at the time of testing.

<u>Halogen</u>

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

Test Item(s) Fluorine (F) Chlorine (CI) Bromine (Br) Iodine (I)	<u>Unit</u>	MDL	001	002	003
	mg/kg	50	ND	ND	ND
	mg/kg	50	ND	>100000	ND
	mg/kg	50	ND	ND	ND
	mg/kg	50	ND	ND	ND
Test Item(s) Fluorine (F) Chlorine (CI) Bromine (Br) Iodine (I)	Unit	MDL	004	005	006
	mg/kg	50	ND	ND	ND
	mg/kg	50	ND	ND	ND
	mg/kg	50	ND	ND	ND
	mg/kg	50	ND	ND	ND
Test Item(s) Fluorine (F) Chlorine (Cl) Bromine (Br) Iodine (I)	Unit	MDL	011	014	015
	mg/kg	50	ND	ND	ND
	mg/kg	50	ND	ND	151
	mg/kg	50	ND	ND	ND
	mg/kg	50	ND	ND	ND



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Test Item(s)	<u>Unit</u>	<u>MDL</u>	<u>016</u>	<u>017</u>
Fluorine (F)	mg/kg	50	453	ND
Chlorine (CI)	mg/kg	50	109	ND
Bromine (Br)	mg/kg	50	ND	ND
lodine (I)	mg/kg	50	ND	ND

Antimony (Sb)

Test Method: With reference to US EPA 3052:1996, analysis was performed by ICP-OES.

Test Item(s) Antimony (Sb)	<u>Unit</u>	MDL	<u>001</u>	<u>002</u>	<u>003</u>
	mg/kg	10	55	ND	ND
Test Item(s) Antimony (Sb)	<u>Unit</u>	MDL	<u>004</u>	<u>005</u>	<u>006</u>
	mg/kg	10	ND	ND	ND
Test Item(s) Antimony (Sb)	<u>Unit</u>	MDL	<u>011</u>	<u>014</u>	<u>015</u>
	mg/kg	10	ND	ND	ND
Test Item(s) Antimony (Sb)	<u>Unit</u> mg/kg	MDL 10	<u>016</u> ND	<u>017</u> ND	

Antimony (Sb)

Test Method: With reference to US EPA Method 3050B:1996, analysis was performed by ICP-OES.

Test Item(s)	<u>Unit</u>	MDL	<u>010</u>	012	013
Antimony (Sb)	mg/kg	10	ND	ND	ND

Phthalates Content

Test Method: With reference to EN 14372:2004, analysis was performed by GC-MS.

Test Item(s)	CAS NO.	<u>Unit</u>	MDL	<u>001</u>
Dibutyl Phthalate (DBP)	84-74-2	%	0.003	ND
Benzylbutyl Phthalate (BBP)	85-68-7	%	0.003	ND
Bis-(2-ethylhexyl) Phthalate (DEHP)	117-81-7	%	0.003	ND
Diisononyl Phthalate (DINP)	28553-12-0	%	0.01	ND
	/68515-48-0			
Di-n-octyl Phthalate (DNOP)	117-84-0	%	0.003	ND
Diisodecyl Phthalate (DIDP)	26761-40-0	%	0.01	ND
•	/68515-49-1			
1,2-Benzenedicarboxylic,dihexylester, branched and	68515-50-4	%	0.01	ND



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Test Report	No.: SHHL2001000671	ОТ	Date: JAN. 14, 20)20 P	Page: 11 of 56	
linear (DHP) Di-n-hexyl Phthalate (DnHP) Diisobutyl Phthalate (DIBP) Bis(2-methoxyethyl) Phthalat Diisopentylphthalate (DIPP) Di-n-pentyl Phthalates (DnPI N-Pentyl-isopentylphthalate 1,2-Benzenedicarboxylic acid and linear alkyl esters (DHNI Diisoheptyl phthalate (DIHP) 1,2-Benzenedicarboxylic acid branched and linear	te (DMEP) P) (nPiPP) d, di-C7-11-branched UP)	84-75-3 84-69-5 117-82- 605-50- 131-18- 776297-6 68515-42 71888-89 84777-06	5 8 5 0 9-9 2-4	% % % % % %	0.003 0.003 0.003 0.003 0.003 0.003 0.001	ND ND ND ND ND ND ND
Test Item(s) Dibutyl Phthalate (DBP) Benzylbutyl Phthalate (BBP) Bis-(2-ethylhexyl) Phthalate Diisononyl Phthalate (DINP)		CAS No 84-74-2 85-68-7 117-81- 28553-12 /68515-4	2 7 7 7-0	<u>Unit</u> % % % %	MDL 0.003 0.003 0.003 0.01	002 ND ND ND ND
Di-n-octyl Phthalate (DNOP) Diisodecyl Phthalate (DIDP)		117-84- 26761-40 /68515-4	0)-0	% %	0.003 0.01	ND ND
1,2-Benzenedicarboxylic, dihelinear (DHP) Di-n-hexyl Phthalate (DnHP) Diisobutyl Phthalate (DIBP) Bis(2-methoxyethyl) Phthalate Diisopentylphthalate (DIPP) Di-n-pentyl Phthalates (DnPI N-Pentyl-isopentylphthalate 1,2-Benzenedicarboxylic acid and linear alkyl esters (DHNI Diisoheptyl phthalate (DIHP) 1,2-Benzenedicarboxylic acid branched and linear	te (DMEP) P) (nPiPP) d, di-C7-11-branched UP)	68515-50 84-75-3 84-69-5 117-82- 605-50- 131-18- 776297-6 68515-42 71888-89 84777-06	9-4 8 5 8 5 0 9-9 2-4 9-6 6-0	% % % % % %	0.01 0.003 0.003 0.003 0.003 0.003 0.003 0.01 0.01	ND
Test Item(s) Dibutyl Phthalate (DBP) Benzylbutyl Phthalate (BBP) Bis-(2-ethylhexyl) Phthalate Diisononyl Phthalate (DINP)	(DEHP)	CAS No 84-74-2 85-68-7 117-81- 28553-12 /68515-4	2. 7 7 2-0 8-0	<u>Unit</u> % % % %	MDL 0.003 0.003 0.003 0.01	003 ND ND ND ND
Di-n-octyl Phthalate (DNOP) Diisodecyl Phthalate (DIDP) 1,2-Benzenedicarboxylic,dih		117-84- 26761-40 /68515-4 68515-50)-0 9-1	% %	0.003 0.01 0.01	ND ND



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Test Report	No.: SHHL2001000671	от і	Date: JAN. 14, 202	0 Pa	ge: 12 of 56	
linear (DHP) Di-n-hexyl Phthalate (DnHP) Diisobutyl Phthalate (DIBP) Bis(2-methoxyethyl) Phthala Diisopentylphthalate (DIPP) Di-n-pentyl Phthalates (DnPl N-Pentyl-isopentylphthalate 1,2-Benzenedicarboxylic acid and linear alkyl esters (DHNI Diisoheptyl phthalate (DIHP) 1,2-Benzenedicarboxylic acid branched and linear	te (DMEP) P) (nPiPP) d, di-C7-11-branched UP)	84-75-3 84-69-5 117-82-1 605-50-1 131-18-1 776297-69 68515-42 71888-89 84777-06	5 8 5 0 9-9 4	% % % % % %	0.003 0.003 0.003 0.003 0.003 0.003 0.01	ND ND ND ND ND ND ND
Test Item(s) Dibutyl Phthalate (DBP) Benzylbutyl Phthalate (BBP) Bis-(2-ethylhexyl) Phthalate Diisononyl Phthalate (DINP)	(DEHP)	CAS NO 84-74-2 85-68-7 117-81- 28553-12 /68515-4	7 -0 8-0	<u>Unit</u> % % % %	MDL 0.003 0.003 0.003 0.001	004 ND ND ND ND
Di-n-octyl Phthalate (DNOP) Diisodecyl Phthalate (DIDP)		117-84-0 26761-40 /68515-4)-0	% %	0.003 0.01	ND ND
1,2-Benzenedicarboxylic,dih linear (DHP) Di-n-hexyl Phthalate (DnHP) Diisobutyl Phthalate (DIBP) Bis(2-methoxyethyl) Phthalat Diisopentylphthalate (DIPP) Di-n-pentyl Phthalates (DnPl N-Pentyl-isopentylphthalate 1,2-Benzenedicarboxylic acid and linear alkyl esters (DHNI Diisoheptyl phthalate (DIHP)	te (DMEP) P) (nPiPP) d, di-C7-11-branched UP)	84-75-3 84-69-5 117-82-4 605-50-4 131-18-1 776297-69 68515-42	8 6 8 5 0 9-9	% % % % % %	0.01 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.001	ND ND ND ND ND ND ND ND
1,2-Benzenedicarboxylic acid branched and linear		84777-06		%	0.01	ND
Test Item(s) Dibutyl Phthalate (DBP) Benzylbutyl Phthalate (BBP) Bis-(2-ethylhexyl) Phthalate Diisononyl Phthalate (DINP) Di-n-octyl Phthalate (DNOP)	(DEHP)	CAS NO 84-74-2 85-68-7 117-81- 28553-12 /68515-4 117-84-0	7 7 -0 8-0	<u>Unit</u> % % % %	MDL 0.003 0.003 0.003 0.01	005 ND ND ND ND ND
Diisodecyl Phthalate (DIDP) 1,2-Benzenedicarboxylic,dih linear (DHP)		26761-40 /68515-4 68515-50	-0 9-1	% %	0.01	ND ND



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Di-n-hexyl Phthalate (DnHF Diisobutyl Phthalate (DIBP)		84-75- 84-69-	-5	% %	0.003 0.003	ND ND
Bis(2-methoxyethyl) Phthala		117-82	2-8	%	0.003	ND
Diisopentylphthalate (DIPP)		605-50		%	0.003	ND
Di-n-pentyl Phthalates (DnF		131-18		%	0.003	ND
N-Pentyl-isopentylphthalate		776297-		%	0.003	ND
1,2-Benzenedicarboxylic ac and linear alkyl esters (DHN	NUP)	68515-4		%	0.01	ND
Diisoheptyl phthalate (DIHF		71888-8		%	0.01	ND
1,2-Benzenedicarboxylic ac branched and linear	sid, dipentyl ester,	84777-0	06-0	%	0.01	ND
Test Item(s)		CAS N		<u>Uni</u>		<u>006</u>
Dibutyl Phthalate (DBP)		84-74		%	0.003	ND
Benzylbutyl Phthalate (BBP		85-68		%	0.003	ND
Bis-(2-ethylhexyl) Phthalate		117-81		%	0.003	ND
Diisononyl Phthalate (DINP)	28553-1		%	0.01	ND
		/68515-				
Di-n-octyl Phthalate (DNOP		117-84		%	0.003	ND
Diisodecyl Phthalate (DIDP)	26761-4		%	0.01	ND
1,2-Benzenedicarboxylic,dil	hexylester, branched and	/68515- 68515-5		%	0.01	ND
linear (DHP) Di-n-hexyl Phthalate (DnHF) \	0175	2	%	0.003	ND
Diisobutyl Phthalate (DIBP)		84-75- 84-69-		% %	0.003 0.003	ND ND
Bis(2-methoxyethyl) Phthala		117-82		% %	0.003	ND ND
Diisopentylphthalate (DIPP)		605-50		% %	0.003	ND ND
Di-n-pentyl Phthalates (DIFF)		131-18		% %	0.003	ND ND
N-Pentyl-isopentylphthalate		776297-		% %	0.003	ND
1,2-Benzenedicarboxylic ac		68515-4		% %	0.003	ND
and linear alkyl esters (DHN	NUP)			%	0.01	ND
Diisoheptyl phthalate (DIHF 1,2-Benzenedicarboxylic ac		71888-8 84777-0		% %	0.01	ND ND
branched and linear	iia, aipentyi ester,	04///-0	0-0	/0	0.01	ND
Test Item(s)		CAS N		<u>Uni</u>		<u>011</u>
Dibutyl Phthalate (DBP)		84-74		%	0.003	ND
Benzylbutyl Phthalate (BBP		85-68·		%	0.003	ND
Bis-(2-ethylhexyl) Phthalate		117-81		%	0.003	ND
Diisononyl Phthalate (DINP)	28553-1		%	0.01	ND
		/68515-				
Di-n-octyl Phthalate (DNOP		117-84		%	0.003	ND
Diisodecyl Phthalate (DIDP)	26761-4		%	0.01	ND
		/68515-				
1,2-Benzenedicarboxylic,dil linear (DHP)	hexylester, branched and	68515-5	50-4	%	0.01	ND
Di-n-hexyl Phthalate (DnHF	P)	84-75	-3	%	0.003	ND



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Diisobutyl Phthalate (DIBP))	84-69-5	5	%	0.003	ND
Bis(2-methoxyethyl) Phthal		117-82-		%	0.003	ND
Diisopentylphthalate (DIPP		605-50-		%	0.003	ND
Di-n-pentyl Phthalates (Dn		131-18-		%	0.003	ND
N-Pentyl-isopentylphthalate		776297-6		%	0.003	ND
1,2-Benzenedicarboxylic a		68515-42		%	0.01	ND
and linear alkyl esters (DH		00010 42		70	0.01	ND
Diisoheptyl phthalate (DIHI		71888-89	9-6	%	0.01	ND
1,2-Benzenedicarboxylic a	cid, dipentyl ester,	84777-06	6-0	%	0.01	ND
branched and linear						
Test Item(s)		CAS N	<u>O.</u>	<u>Uni</u>	t MDL	<u>014</u>
Dibutyl Phthalate (DBP)		84-74-2	2	%	0.003	ND
Benzylbutyl Phthalate (BBF	P)	85-68-7	7	%	0.003	ND
Bis-(2-ethylhexyl) Phthalate	(DEHP)	117-81-	7	%	0.003	ND
Diisononyl Phthalate (DINF	P)	28553-12	2-0	%	0.01	ND
,		/68515-4	8-0			
Di-n-octyl Phthalate (DNOF	P)	117-84-	0	%	0.003	ND
Diisodecyl Phthalate (DIDF		26761-40)-0	%	0.01	ND
`	,	/68515-4	9-1			
1,2-Benzenedicarboxylic,di linear (DHP)	hexylester, branched and	68515-50)-4	%	0.01	ND
Di-n-hexyl Phthalate (DnHl	D)	84-75-3	2	%	0.003	ND
Diisobutyl Phthalate (DIBP)		84-69-		%	0.003	ND
Bis(2-methoxyethyl) Phthal		117-82-		%	0.003	ND
Diisopentylphthalate (DIPP		605-50-		% %	0.003	ND ND
Di-n-pentyl Phthalates (Dn		131-18-		% %	0.003	ND ND
N-Pentyl-isopentylphthalate		776297-6		% %	0.003	ND
1,2-Benzenedicarboxylic a		68515-42		% %	0.003	ND ND
and linear alkyl esters (DH		00313-42	-4	/0	0.01	ND
Diisoheptyl phthalate (DIH		71888-89	0-6	%	0.01	ND
1,2-Benzenedicarboxylic a		84777-06		%	0.01	ND
branched and linear	sia, diperityi ester,	04777-00	J-0	70	0.01	ND
Test Item(s)		CAS N	Ο.	<u>Uni</u>	t MDL	<u>015</u>
Dibutyl Phthalate (DBP)		84-74-2		%	0.003	ND
Benzylbutyl Phthalate (BBF	P)	85-68-7		%	0.003	ND
Bis-(2-ethylhexyl) Phthalate		117-81-		%	0.003	ND
Diisononyl Phthalate (DINF		28553-12		%	0.01	ND
Ziloonorry: Titilalato (Zirti	,	/68515-4		,0	0.0.	.,,
Di-n-octyl Phthalate (DNOF)	117-84-		%	0.003	ND
Diisodecyl Phthalate (DIDF		26761-40		%	0.01	ND
2ocacoyi i milalato (DIDI	,	/68515-4		70	5.01	110
1,2-Benzenedicarboxylic,di	hexylester branched and	68515-50		%	0.01	ND
linear (DHP)		00010 00	, '	70	5.01	110
Di-n-hexyl Phthalate (DnHf)	84-75-3	3	%	0.003	ND
Diisobutyl Phthalate (DIBP		84-69-		%	0.003	ND
Zoodatyi i ittialato (DiDi	,	O + 00 (•	70	0.000	ND



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Bis(2-methoxyethyl) Phthala	ate (DMFP)	117-82	-8	%	0.003	ND
Diisopentylphthalate (DIPP)		605-50		%	0.003	ND
Di-n-pentyl Phthalates (DnF		131-18		%	0.003	ND
N-Pentyl-isopentylphthalate		776297-0		%	0.003	ND
1,2-Benzenedicarboxylic ac		68515-4		%	0.01	ND
and linear alkyl esters (DHN	NUP)					
Diisoheptyl phthalate (DIHF		71888-8	9-6	%	0.01	ND
1,2-Benzenedicarboxylic ac	cid, dipentyl ester,	84777-0	6-0	%	0.01	ND
branched and linear						
Test Item(s)		CAS N	<u>10.</u>	<u>Unit</u>	<u>MDL</u>	<u>016</u>
Dibutyl Phthalate (DBP)		84-74-	-2	%	0.003	ND
Benzylbutyl Phthalate (BBP		85-68-		%	0.003	ND
Bis-(2-ethylhexyl) Phthalate		117-81		%	0.003	ND
Diisononyl Phthalate (DINP)	28553-1		%	0.01	ND
		/68515-				
Di-n-octyl Phthalate (DNOP		117-84		%	0.003	ND
Diisodecyl Phthalate (DIDP))	26761-4		%	0.01	ND
		/68515-				
1,2-Benzenedicarboxylic,dil linear (DHP)	nexylester, branched and	68515-5	0-4	%	0.01	ND
Di-n-hexyl Phthalate (DnHP	?)	84-75-	-3	%	0.003	ND
Diisobutyl Phthalate (DIBP)		84-69-	·5	%	0.003	ND
Bis(2-methoxyethyl) Phthala	ate (DMEP)	117-82	-8	%	0.003	ND
Diisopentylphthalate (DIPP)		605-50		%	0.003	ND
Di-n-pentyl Phthalates (DnF		131-18		%	0.003	ND
N-Pentyl-isopentylphthalate		776297-0		%	0.003	ND
1,2-Benzenedicarboxylic ac		68515-4	2-4	%	0.01	ND
and linear alkyl esters (DHN		71000 0	0.6	%	0.01	ND
Diisoheptyl phthalate (DIHP		71888-8 84777-0		% %	0.01	ND
1,2-Benzenedicarboxylic ac branched and linear	au, diperityi ester,	04///-0	0-0	70	0.01	ND
Test Item(s)		CAS N	1O.	Unit	MDL	017
Dibutyl Phthalate (DBP)		84-74		%	0.003	ND
Benzylbutyl Phthalate (BBP	?)	85-68-		%	0.003	ND
Bis-(2-ethylhexyl) Phthalate	(DEHP)	117-81	-7	%	0.003	ND
Diisononyl Phthalate (DINP	•	28553-1	2-0	%	0.01	ND
,	•	/68515-	48-0			
Di-n-octyl Phthalate (DNOP	?)	117-84	-0	%	0.003	ND
Diisodecyl Phthalate (DIDP)	26761-4	0-0	%	0.01	ND
		/68515-				
1,2-Benzenedicarboxylic,dil linear (DHP)	hexylester, branched and	68515-5	0-4	%	0.01	ND
Di-n-hexyl Phthalate (DnHP	P)	84-75-	-3	%	0.003	ND
Diisobutyl Phthalate (DIBP)		84-69-		%	0.003	ND
Bis(2-methoxyethyl) Phthala		117-82		%	0.003	ND
, , , , ,	` '					



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Diisopentylphthalate (DIPF		605-50)-5	%	0.003	ND
Di-n-pentyl Phthalates (Dn	PP)	131-18	3-0	%	0.003	ND
N-Pentyl-isopentylphthalate (nPiPP)		776297-	69-9	%	0.003	ND
1,2-Benzenedicarboxylic a and linear alkyl esters (DH		68515-4	12-4	%	0.01	ND
Diisoheptyl phthalate (DIH	P)	71888-8	39-6	%	0.01	ND
1,2-Benzenedicarboxylic a branched and linear	cid, dipentyl ester,	84777-0	06-0	%	0.01	ND



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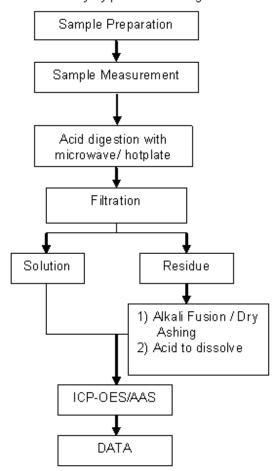


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Elements (IEC62321) Testing Flow Chart

1) These samples were dissolved totally by pre-conditioning method according to below flow chart.





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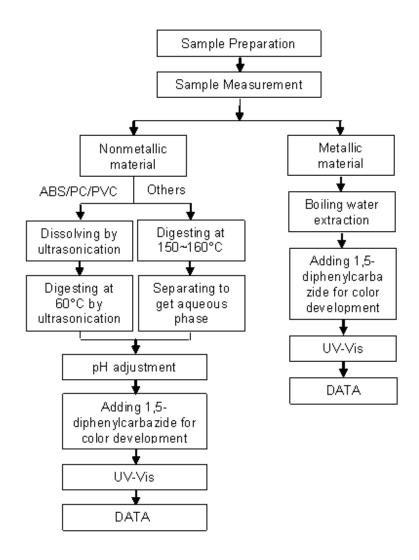
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Hexavalent Chromium (Cr(VI)) Testing Flow Chart





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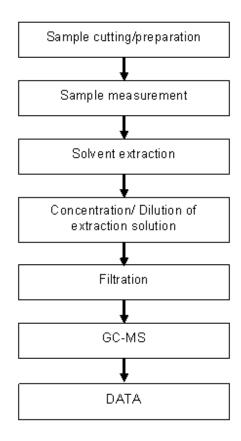
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PBBs/PBDEs Testing Flow Chart





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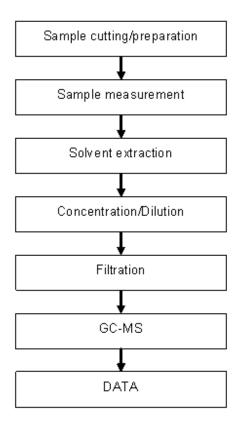


Test Report

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Phthalates Testing Flow Chart





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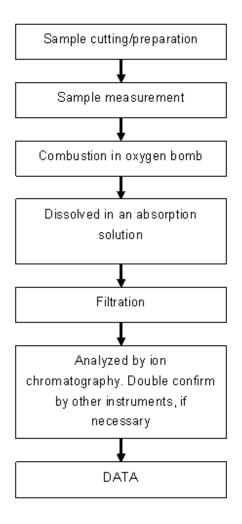
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Halogen Testing (oxygen bomb) Flow Chart





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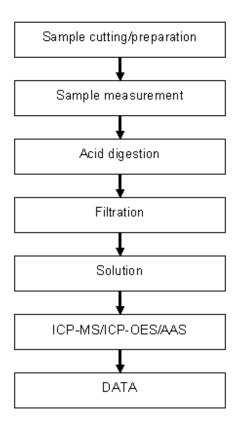
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Elements Testing Flow Chart





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Test Report No.: SHHL2001000671OT Date: JAN. 14, 2020 Page: 23 of 56

Test Part Description:

Specimen No.	SGS Sample ID	Description
SN1	SHA19-286407.001	Black plastic band
SN2	SHA19-286407.002	Black plastic band
SN3	SHA19-286407.003	White paint
SN4	SHA19-286407.004	Transparent soft plastic adhesive tape
SN5	SHA19-286407.005	Beige paper
SN6	SHA19-286407.006	Transparent liquid
SN7	SHA19-286407.007	Silvery metal sheet
SN8	SHA19-286407.008	Silvery metal sheet
SN9	SHA19-286407.009	Silvery metal shell
SN10	SHA19-286407.010	Silvery metal lead tab
SN11	SHA19-286407.011	Black plastic round washer
SN12	SHA19-286407.012	Silvery metal pin
SN13	SHA19-286407.013	Silvery metal rivet
SN14	SHA19-286407.014	Silvery metal washer
SN15	SHA19-286407.015	Black rubber with brown plastic round plate

Remarks:

- (1) 1 mg/kg = 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: With reference to IEC 62321-4:2013+AMD1:2017, IEC62321-5:2013, IEC62321-7-2:2017, IEC 62321-6:2015 and IEC62321-8:2017, analyzed by ICP-OES, UV-Vis and GC-MS.

Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>	<u>002</u>	<u>003</u>
Cadmium (Cd)	100	mg/kg	2	ND	ND	ND
Lead (Pb)	1000	mg/kg	2	ND	ND	ND
Mercury (Hg)	1000	mg/kg	2	ND	ND	ND
Hexavalent Chromium (Cr(VI))	1000	mg/kg	8		ND	
Hexavalent Chromium (Cr(VI))	1000	mg/kg	8	ND		ND
Sum of PBBs	1000	mg/kg	-	ND	ND	ND
Monobromobiphenyl	-	mg/kg	5	ND	ND	ND
Dibromobiphenyl	-	mg/kg	5	ND	ND	ND
Tribromobiphenyl	-	mg/kg	5	ND	ND	ND
Tetrabromobiphenyl	-	mg/kg	5	ND	ND	ND
Pentabromobiphenyl	-	mg/kg	5	ND	ND	ND
Hexabromobiphenyl	-	mg/kg	5	ND	ND	ND
Heptabromobiphenyl	-	mg/kg	5	ND	ND	ND
Octabromobiphenyl	-	mg/kg	5	ND	ND	ND



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Test Report	No.: SHHL2001000671OT		Date: JAN. 14, 2020			Page: 24 of 56	
Nonabromobiphenyl Decabromobiphenyl		-	mg/kg mg/kg	5 5	ND ND	ND ND	ND ND
Sum of PBDEs		1000	mg/kg	-	ND	ND	ND
Monobromodiphenyl ether		-	mg/kg	5	ND	ND	ND
Dibromodiphenyl ether		-	mg/kg	5	ND	ND	ND
Tribromodiphenyl ether		-	mg/kg	5	ND	ND	ND
Tetrabromodiphenyl ether		-	mg/kg	5	ND	ND	ND
Pentabromodiphenyl ether		-	mg/kg	5	ND	ND	ND
Hexabromodiphenyl ether		-	mg/kg	5	ND	ND	ND
Heptabromodiphenyl ether		-	mg/kg	5	ND	ND	ND
Octabromodiphenyl ether		-	mg/kg	5 5	ND ND	ND ND	ND ND
Nonabromodiphenyl ether Decabromodiphenyl ether		-	mg/kg mg/kg	5 5	ND	ND ND	ND
Di-butyl Phthalate (DBP)		1000	mg/kg	50	ND	ND	ND
Benzyl Butyl Phthalate (BBP))	1000	mg/kg	50	ND	ND	ND
Di-2-Ethyl Hexyl Phthalate (D		1000	mg/kg	50	ND	ND	ND
Diisobutyl Phthalates (DIBP)	,	1000	mg/kg	50	ND	ND	ND
Test Item(s)		Limit	<u>Unit</u>	<u>MDL</u>	<u>004</u>	<u>005</u>	<u>006</u>
Cadmium (Cd)		100	mg/kg	2	ND	ND	ND
Lead (Pb)		1000	mg/kg	2	ND	ND	ND
Mercury (Hg)		1000	mg/kg	2	ND	ND	ND
Hexavalent Chromium (Cr(VI))	1000	mg/kg	8	ND	ND	ND
Sum of PBBs		1000	mg/kg	-	ND	ND	ND
Monobromobiphenyl		-	mg/kg	5	ND	ND	ND
Dibromobiphenyl		-	mg/kg	5	ND	ND	ND
Tribromobiphenyl		-	mg/kg	5	ND	ND	ND
Tetrabromobiphenyl Pentabromobiphenyl		-	mg/kg	5 5	ND ND	ND ND	ND ND
Hexabromobiphenyl		-	mg/kg mg/kg	5	ND	ND	ND
Heptabromobiphenyl		_	mg/kg	5	ND	ND	ND
Octabromobiphenyl		_	mg/kg	5	ND	ND	ND
Nonabromobiphenyl		-	mg/kg	5	ND	ND	ND
Decabromobiphenyl		-	mg/kg	5	ND	ND	ND
Sum of PBDEs		1000	mg/kg	-	ND	ND	ND
Monobromodiphenyl ether		-	mg/kg	5	ND	ND	ND
Dibromodiphenyl ether		-	mg/kg	5	ND	ND	ND
Tribromodiphenyl ether		-	mg/kg	5	ND	ND	ND
Tetrabromodiphenyl ether		-	mg/kg	5	ND	ND ND	ND
Pentabromodiphenyl ether Hexabromodiphenyl ether		-	mg/kg mg/kg	5 5	ND ND	ND ND	ND ND
Heptabromodiphenyl ether		-	mg/kg	5	ND	ND	ND
Octabromodiphenyl ether		-	mg/kg	5	ND	ND	ND
Nonabromodiphenyl ether		_	mg/kg	5	ND	ND	ND
Decabromodiphenyl ether		-	mg/kg	5	ND	ND	ND
Di-butyl Phthalate (DBP)		1000	mg/kg	50	ND	ND	ND



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Test Report	No.: SHHL200100	00671OT	Date	: JAN. 14	, 2020	Page: 25 o	f 56
Benzyl Butyl Phthalate (BBP Di-2-Ethyl Hexyl Phthalate (I Diisobutyl Phthalates (DIBP)	DEHP)	1000 1000 1000	mg/kg mg/kg mg/kg	50 50 50	ND ND ND	ND ND ND	ND ND ND
Test Item(s) Cadmium (Cd) Lead (Pb) Mercury (Hg) Hexavalent Chromium (Cr(V Sum of PBBs Monobromobiphenyl Dibromobiphenyl Tribromobiphenyl Tetrabromobiphenyl Pentabromobiphenyl Hexabromobiphenyl Hexabromobiphenyl Heptabromobiphenyl Octabromobiphenyl Nonabromobiphenyl Sum of PBDEs Monobromodiphenyl ether Dibromodiphenyl ether Tribromodiphenyl ether Tetrabromodiphenyl ether Tetrabromodiphenyl ether Hexabromodiphenyl ether Hexabromodiphenyl ether Hexabromodiphenyl ether Hexabromodiphenyl ether Heptabromodiphenyl ether Doctabromodiphenyl ether Nonabromodiphenyl ether Di-butyl Phthalate (DBP) Benzyl Butyl Phthalate (BBP) Di-2-Ethyl Hexyl Phthalate (I) DEHP)	Limit 100 1000 1000 1000 - - - - - - - 1000 - - - -	Unit mg/kg	MDL 2 2 2 8 · 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	<u>015</u> NN NN	
Diisobutyl Phthalates (DIBP)		1000	mg/kg	50	ND	ND	

Notes:

- (1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863. IEC 62321 series is equivalent to EN 62321 series https://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP_ORG_ID,FS P_LANG_ID:1258637,25
- (2) The restriction of DEHP, BBP, DBP and DIBP shall apply to medical devices, including in vitro medical devices, and monitoring and control instruments, including industrial monitoring and control instruments, from 22 July 2021.
- (3) The restriction of DEHP, BBP, DBP and DIBP shall not apply to toys which are already subject to the restriction of DEHP, BBP, DBP and DIBP through entry 51 of Annex XVII



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to Regulation (EC) No 1907/2006.

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

Test Method: With reference to IEC 62321-4:2013+AMD1:2017, IEC62321-5:2013 and IEC62321-7-1:2015, analyzed by ICP-OES, AAS and UV-Vis.

Test Item(s) Cadmium (Cd) Lead (Pb) Mercury (Hg) Hexavalent Chromium (Cr(VI)) ▼	Limit 100 1000 1000	Unit mg/kg mg/kg mg/kg µg/cm²	MDL 2 2 2 2 0.10	007 ND ND ND ND	008 ND 24 ND ND	009 ND 9 ND ND
Test Item(s) Cadmium (Cd) Lead (Pb) Mercury (Hg) Hexavalent Chromium (Cr(VI)) ▼	Limit 100 1000 1000	Unit mg/kg mg/kg mg/kg µg/cm²	MDL 2 2 2 0.10	010 ND ND ND ND	012 ND ND ND ND	013 ND 6 ND ND
Test Item(s) Cadmium (Cd) Lead (Pb) Mercury (Hg) Hexavalent Chromium (Cr(VI)) ▼	<u>Limit</u> 100 1000 1000	Unit mg/kg mg/kg mg/kg µg/cm²	MDL 2 2 2 2 0.10	014 ND ND ND ND		

Notes:

- (1)The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863. IEC 62321 series is equivalent to EN 62321 series https://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP_ORG_ID,FSP_LANG_ID:1258637,25
- (2) ▼ = a. The sample is positive for CrVI if the CrVI concentration is greater than 0.13 µg/cm². The sample coating is considered to contain CrVI
 - b. The sample is negative for CrVI if CrVI is ND (concentration less than 0.10 $\mu g/cm^2$). The coating is considered a non-CrVI based coating
 - c. The result between 0.10 µg/cm² and 0.13 µg/cm² is considered to be inconclusive unavoidable coating variations may influence the determination Information on storage conditions and production date of the tested sample is unavailable and thus Cr(VI) results represent status of the sample at the time of testing.



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<u>Halogen</u>

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

Test Item(s) Fluorine (F) Chlorine (CI) Bromine (Br) Iodine (I)	Unit	MDL	001	002	003
	mg/kg	50	ND	ND	ND
	mg/kg	50	ND	>100000	ND
	mg/kg	50	ND	ND	ND
	mg/kg	50	ND	ND	ND
Test Item(s) Fluorine (F) Chlorine (CI) Bromine (Br) Iodine (I)	Unit	MDL	004	005	006
	mg/kg	50	ND	ND	ND
	mg/kg	50	ND	ND	ND
	mg/kg	50	ND	ND	ND
	mg/kg	50	ND	ND	ND
Test Item(s) Fluorine (F) Chlorine (CI) Bromine (Br) Iodine (I)	Unit mg/kg mg/kg mg/kg mg/kg	MDL 50 50 50 50	011 ND ND ND ND	015 ND ND ND ND	

Antimony(Sb)

Test Method: With reference to US EPA 3052:1996, analysis was performed by ICP-OES.

Test Item(s) Antimony (Sb)	<u>Unit</u>	MDL	<u>001</u>	<u>002</u>	<u>003</u>
	mg/kg	10	55	ND	ND
Test Item(s) Antimony (Sb)	<u>Unit</u>	MDL	<u>004</u>	<u>005</u>	<u>006</u>
	mg/kg	10	ND	ND	ND
Test Item(s) Antimony (Sb)	<u>Unit</u> mg/kg	MDL 10	<u>011</u> ND	<u>015</u> ND	

Antimony(Sb)

Test Method: With reference to US EPA Method 3050B:1996, analysis was performed by ICP-OES.

Test Item(s) Antimony (Sb)	<u>Unit</u>	MDL	<u>010</u>	<u>012</u>	<u>013</u>
	mg/kg	10	ND	ND	ND
Test Item(s)	<u>Unit</u>	MDL	<u>014</u>		



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Antimony (Sb) mg/kg 10 ND

Phthalates Content

Test Method: With reference to EN 14372:2004, analysis was performed by GC-MS.

Test Item(s)	CAS NO.	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Dibutyl Phthalate (DBP)	84-74-2	%	0.003	ND
Benzylbutyl Phthalate (BBP)	85-68-7	%	0.003	ND
Bis-(2-ethylhexyl) Phthalate (DEHP)	117-81-7	%	0.003	ND
Diisononyl Phthalate (DINP)	28553-12-0	%	0.01	ND
	/68515-48-0			
Di-n-octyl Phthalate (DNOP)	117-84-0	%	0.003	ND
Diisodecyl Phthalate (DIDP)	26761-40-0	%	0.01	ND
	/68515-49-1			
1,2-Benzenedicarboxylic,dihexylester, branched and linear (DHP)	68515-50-4	%	0.01	ND
Di-n-hexyl Phthalate (DnHP)	84-75-3	%	0.003	ND
Diisobutyl Phthalate (DIBP)	84-69-5	%	0.003	ND
Bis(2-methoxyethyl) Phthalate (DMEP)	117-82-8	%	0.003	ND
Diisopentylphthalate (DIPP)	605-50-5	%	0.003	ND
Di-n-pentyl Phthalates (DnPP)	131-18-0	%	0.003	ND
N-Pentyl-isopentylphthalate (nPiPP)	776297-69-9	%	0.003	ND
1,2-Benzenedicarboxylic acid, di-C7-11-branched	68515-42-4	%	0.01	ND
and linear alkyl esters (DHNUP)				
Diisoheptyl phthalate (DIHP)	71888-89-6	%	0.01	ND
1,2-Benzenedicarboxylic acid, dipentyl ester,	84777-06-0	%	0.01	ND
branched and linear		,,	0.0.	
Test Item(s)	CAS NO.	<u>Unit</u>	MDL	002
Dibutyl Phthalate (DBP)	84-74-2	%	0.003	ND
Benzylbutyl Phthalate (BBP)	85-68-7	%	0.003	ND
Bis-(2-ethylhexyl) Phthalate (DEHP)	117-81-7	%	0.003	ND
Diisononyl Phthalate (DINP)	28553-12-0	%	0.01	ND
·	/68515-48-0			
Di-n-octyl Phthalate (DNOP)	117-84-0	%	0.003	ND
Diisodecyl Phthalate (DIDP)	26761-40-0	%	0.01	ND
·	/68515-49-1			
1,2-Benzenedicarboxylic,dihexylester, branched and	68515-50-4	%	0.01	ND
linear (DHP)				
Di-n-hexyl Phthalate (DnHP)	84-75-3	%	0.003	ND
Diisobutyl Phthalate (DIBP)	84-69-5	%	0.003	ND
Bis(2-methoxyethyl) Phthalate (DMEP)	117-82-8	%	0.003	ND
Diisopentylphthalate (DIPP)	605-50-5	%	0.003	ND
Di-n-pentyl Phthalates (DnPP)	131-18-0	%	0.003	ND
N-Pentyl-isopentylphthalate (nPiPP)	776297-69-9	%	0.003	ND
1,2-Benzenedicarboxylic acid, di-C7-11-branched	68515-42-4	%	0.01	ND



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Test Report	No.: SHHL2001000671	ОТ	Date: JAN. 14, 20)20 Pa	age: 29 of 56	
and linear alkyl esters (DHN Diisoheptyl phthalate (DIHP) 1,2-Benzenedicarboxylic aci branched and linear	·	71888-8 84777-0		% %	0.01 0.01	ND ND
Test Item(s) Dibutyl Phthalate (DBP) Benzylbutyl Phthalate (BBP) Bis-(2-ethylhexyl) Phthalate Diisononyl Phthalate (DINP)	(DEHP)	CAS N 84-74- 85-68- 117-81 28553-1 /68515-	2 7 -7 2-0 48-0	<u>Unit</u> % % % %	MDL 0.003 0.003 0.003 0.01	003 ND ND ND ND
Di-n-octyl Phthalate (DNOP) Diisodecyl Phthalate (DIDP)		117-84 26761-4 /68515-4	0-0	% %	0.003 0.01	ND ND
1,2-Benzenedicarboxylic,dih linear (DHP)	•	68515-5		%	0.01	ND
Di-n-hexyl Phthalate (DnHP) Diisobutyl Phthalate (DIBP) Bis(2-methoxyethyl) Phthala		84-75- 84-69- 117-82	5 -8	% % %	0.003 0.003 0.003	ND ND ND
Diisopentylphthalate (DIPP) Di-n-pentyl Phthalates (DnP N-Pentyl-isopentylphthalate 1,2-Benzenedicarboxylic aci	(nPiPP)	605-50 131-18 776297-6 68515-4	-0 89-9	% % % %	0.003 0.003 0.003 0.01	ND ND ND ND
and linear alkyl esters (DHN Diisoheptyl phthalate (DIHP) 1,2-Benzenedicarboxylic aci branched and linear	UP)	71888-8 84777-0	9-6	% %	0.01 0.01	ND ND
Test Item(s) Dibutyl Phthalate (DBP) Benzylbutyl Phthalate (BBP) Bis-(2-ethylhexyl) Phthalate Diisononyl Phthalate (DINP)	(DEHP)	CAS N 84-74- 85-68- 117-81 28553-1 /68515-4	2 7 -7 2-0	<u>Unit</u> % % % %	MDL 0.003 0.003 0.003 0.01	004 ND ND ND ND
Di-n-octyl Phthalate (DNOP) Diisodecyl Phthalate (DIDP)		117-84 26761-4 /68515-4	-0 0-0	% %	0.003 0.01	ND ND
1,2-Benzenedicarboxylic,dih linear (DHP)	exylester, branched and	68515-5		%	0.01	ND
Di-n-hexyl Phthalate (DnHP) Diisobutyl Phthalate (DIBP) Bis(2-methoxyethyl) Phthala Diisopentylphthalate (DIPP) Di-n-pentyl Phthalates (DnP N-Pentyl-isopentylphthalate 1,2-Benzenedicarboxylic aci	te (DMEP) P) (nPiPP)	84-75- 84-69- 117-82 605-50 131-18 776297-6 68515-4	5 -8 -5 -0 59-9	% % % % %	0.003 0.003 0.003 0.003 0.003 0.003 0.001	ND ND ND ND ND ND
and linear alkyl esters (DHN		00010-4	4 T	70	0.01	שאו



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Diisoheptyl phthalate (DIHP)	1	71888-8	9-6	%	0.01	ND
1,2-Benzenedicarboxylic aci		84777-0		%	0.01	ND
branched and linear	, . , . ,					
Test Item(s)		CAS N	<u>10.</u>	<u>Unit</u>	<u>MDL</u>	<u>005</u>
Dibutyl Phthalate (DBP)		84-74-		%	0.003	ND
Benzylbutyl Phthalate (BBP)		85-68-		%	0.003	ND
Bis-(2-ethylhexyl) Phthalate		117-81		%	0.003	ND
Diisononyl Phthalate (DINP)		28553-1 /68515-		%	0.01	ND
Di-n-octyl Phthalate (DNOP)		117-84		%	0.003	ND
Diisodecyl Phthalate (DIDP)		26761-4		%	0.01	ND
405		/68515-		0/	0.04	ND
1,2-Benzenedicarboxylic,dih linear (DHP)	•	68515-5	0-4	%	0.01	ND
Di-n-hexyl Phthalate (DnHP)		84-75-		%	0.003	ND
Diisobutyl Phthalate (DIBP)		84-69-		%	0.003	ND
Bis(2-methoxyethyl) Phthala	te (DMEP)	117-82		%	0.003	ND
Diisopentylphthalate (DIPP)	D)	605-50		%	0.003	ND
Di-n-pentyl Phthalates (DnP N-Pentyl-isopentylphthalate		131-18 776297-0		% %	0.003 0.003	ND ND
1,2-Benzenedicarboxylic aci		68515-4		%	0.003	ND
and linear alkyl esters (DHN		00010 4	2 T	70	0.01	ND
Diisoheptyl phthalate (DIHP)		71888-8	9-6	%	0.01	ND
1,2-Benzenedicarboxylic aci		84777-0		%	0.01	ND
branched and linear						
Test Item(s)		CAS N	IO.	Unit	MDL	006
Dibutyl Phthalate (DBP)		84-74-		%	0.003	ND
Benzylbutyl Phthalate (BBP)		85-68-		%	0.003	ND
Bis-(2-ethylhexyl) Phthalate		117-81		%	0.003	ND
Diisononyl Phthalate (DINP)		28553-1		%	0.01	ND
D: (D (((D O D)		/68515-		0/	0.000	ND
Di-n-octyl Phthalate (DNOP)		117-84		%	0.003	ND
Diisodecyl Phthalate (DIDP)		26761-4 /68515-	49-1	%	0.01	ND
1,2-Benzenedicarboxylic,dih linear (DHP)	exylester, branched and	68515-5	0-4	%	0.01	ND
Di-n-hexyl Phthalate (DnHP)		84-75-	-3	%	0.003	ND
Diisobutyl Phthalate (DIBP)		84-69-	·5	%	0.003	ND
Bis(2-methoxyethyl) Phthala	te (DMEP)	117-82		%	0.003	ND
Diisopentylphthalate (DIPP)		605-50		%	0.003	ND
Di-n-pentyl Phthalates (DnP		131-18		%	0.003	ND
N-Pentyl-isopentylphthalate		776297-0		%	0.003	ND
1,2-Benzenedicarboxylic aci and linear alkyl esters (DHN		68515-4	2-4	%	0.01	ND
Diisoheptyl phthalate (DIHP)		71888-8	9-6	%	0.01	ND



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1,2-Benzenedicarboxylic acid branched and linear	I, dipentyl ester,	84777-0	6-0	%	0.01	ND
Test Item(s)		CAS N	<u>O.</u>	<u>Unit</u>	<u>MDL</u>	<u>011</u>
Dibutyl Phthalate (DBP)		84-74-	2	%	0.003	ND
Benzylbutyl Phthalate (BBP)		85-68-		%	0.003	ND
Bis-(2-ethylhexyl) Phthalate (DEHP)	117-81-	.7	%	0.003	ND
Diisononyl Phthalate (DINP)		28553-12 /68515-4		%	0.01	ND
Di n actul Phthalata (DNOP)		117-84		%	0.003	ND
Di-n-octyl Phthalate (DNOP) Diisodecyl Phthalate (DIDP)		26761-4		%	0.003	ND
Disodecyi Filinalate (DIDF)		/68515-4		70	0.01	ND
1,2-Benzenedicarboxylic,dihe	exylester, branched and	68515-5		%	0.01	ND
linear (DHP)						
Di-n-hexyl Phthalate (DnHP)		84-75-	3	%	0.003	ND
Diisobutyl Phthalate (DIBP)		84-69-	5	%	0.003	ND
Bis(2-methoxyethyl) Phthalat	e (DMEP)	117-82-	-8	%	0.003	ND
Diisopentylphthalate (DIPP)		605-50-	·5	%	0.003	ND
Di-n-pentyl Phthalates (DnPF	P)	131-18-	-0	%	0.003	ND
N-Pentyl-isopentylphthalate (776297-6	9-9	%	0.003	ND
1,2-Benzenedicarboxylic acid		68515-42	2-4	%	0.01	ND
and linear alkyl esters (DHNU	JP)					
Diisoheptyl phthalate (DIHP)		71888-89		%	0.01	ND
1,2-Benzenedicarboxylic acid	I, dipentyl ester,	84777-0	6-0	%	0.01	ND
branched and linear						
Test Item(s)		CAS N	Ο.	<u>Unit</u>	<u>MDL</u>	<u>015</u>
Dibutyl Phthalate (DBP)		84-74-		%	0.003	ND
Benzylbutyl Phthalate (BBP)		85-68-		%	0.003	ND
Bis-(2-ethylhexyl) Phthalate (DEHP)	117-81-		%	0.003	ND
Diisononyl Phthalate (DINP)	•	28553-12	2-0	%	0.01	ND
, ,		/68515-4	18-0			
Di-n-octyl Phthalate (DNOP)		117-84	-0	%	0.003	ND
Diisodecyl Phthalate (DIDP)		26761-4	0-0	%	0.01	ND
		/68515-4	1 9-1			
1,2-Benzenedicarboxylic,dihe linear (DHP)	exylester, branched and	68515-50	0-4	%	0.01	ND
Di-n-hexyl Phthalate (DnHP)		84-75-	3	%	0.003	ND
Diisobutyl Phthalate (DIBP)		84-69-		%	0.003	ND
Bis(2-methoxyethyl) Phthalat	e (DMEP)	117-82-		%	0.003	ND
Diisopentylphthalate (DIPP)	· (==.)	605-50-		%	0.003	ND
Di-n-pentyl Phthalates (DnPF	P)	131-18-		%	0.003	ND
N-Pentyl-isopentylphthalate (776297-6		%	0.003	ND
1,2-Benzenedicarboxylic acid		68515-42		%	0.01	ND
and linear alkyl esters (DHNL						
Diisoheptyl phthalate (DIHP)	,	71888-89	9-6	%	0.01	ND
1,2-Benzenedicarboxylic acid	I, dipentyl ester,	84777-0		%	0.01	ND
,		_				



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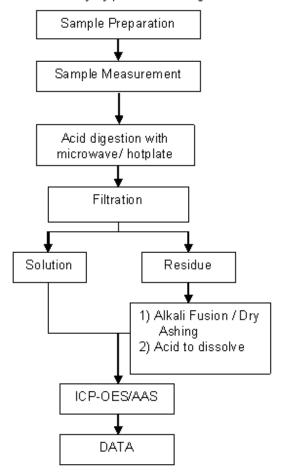
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branched and linear

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Elements (IEC62321) Testing Flow Chart

1) These samples were dissolved totally by pre-conditioning method according to below flow chart.





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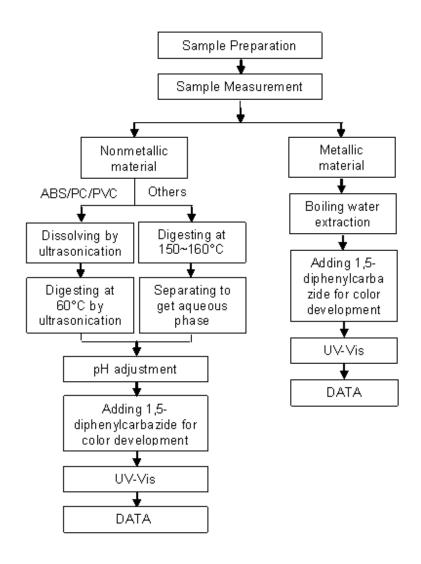
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Hexavalent Chromium (Cr(VI)) Testing Flow Chart





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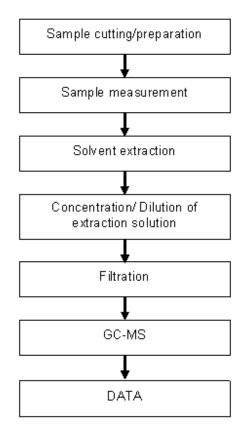
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PBBs/PBDEs Testing Flow Chart





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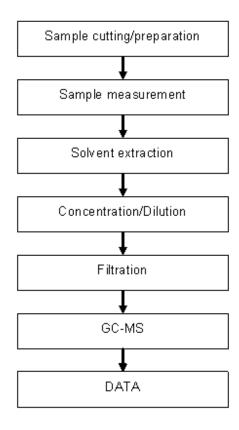


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Phthalates Testing Flow Chart





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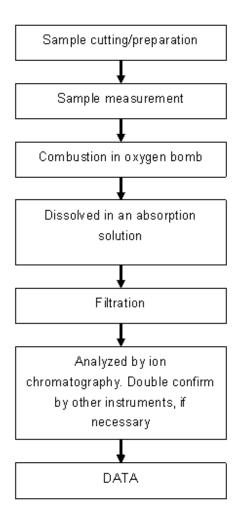
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Halogen Testing (oxygen bomb) Flow Chart





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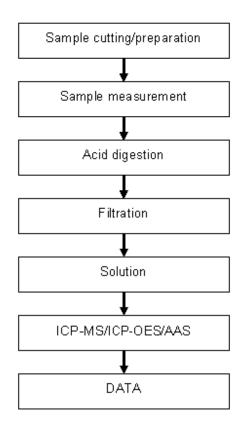
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Elements Testing Flow Chart



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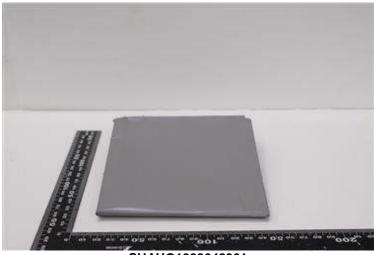
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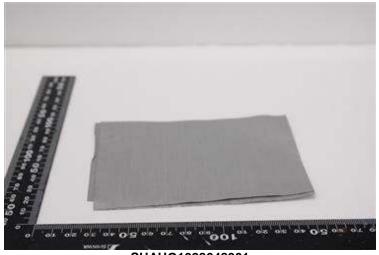
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Sample Photo:



SHAHG1928648301 SHA19-286483.001



SHAHG1928648301 SHA19-286483.002



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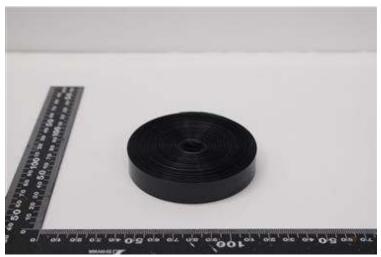
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SHAHG1928648301 SHA19-286483.003



SHAHG1928649601 SHA19-286496.001

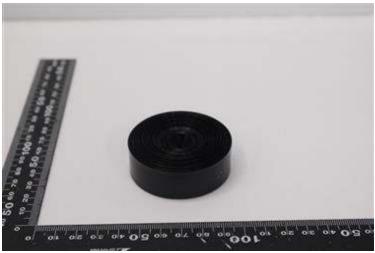


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SHAHG1928649601 SHA19-286496.002



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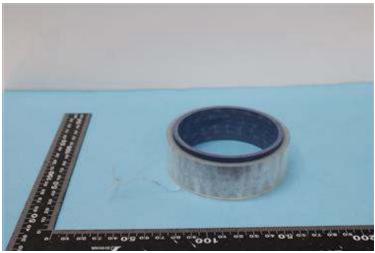


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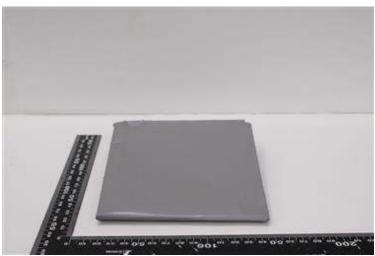
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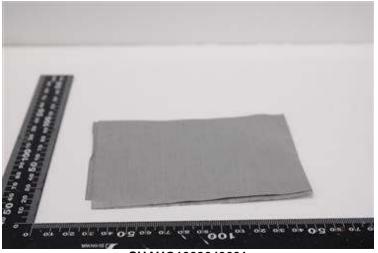
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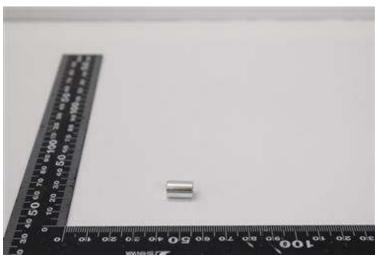
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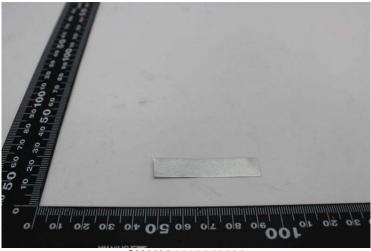
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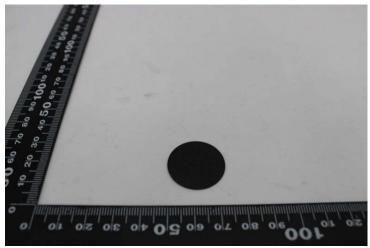
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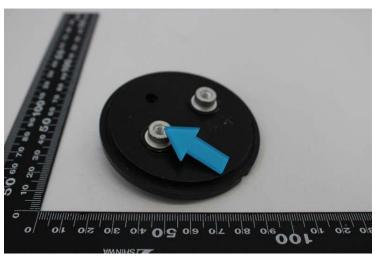
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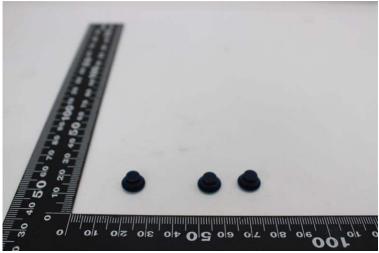
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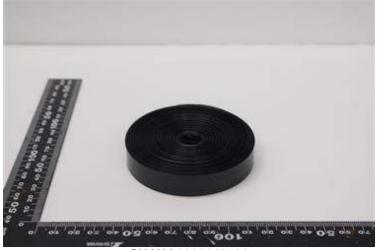
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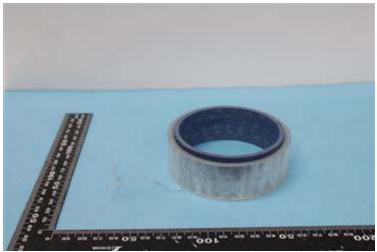
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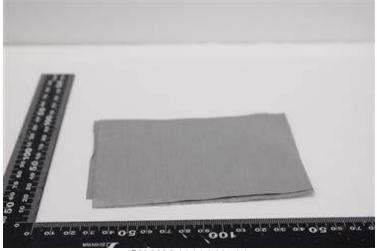
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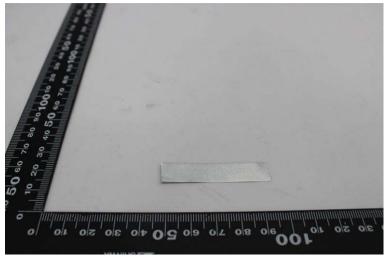


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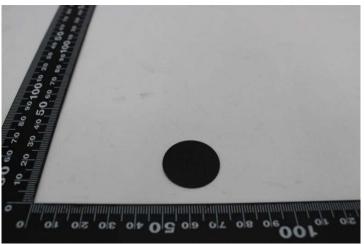


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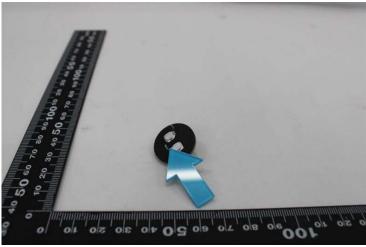
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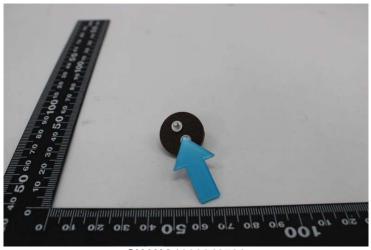


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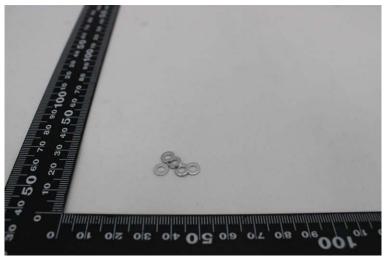
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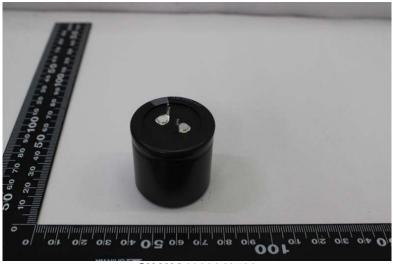
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