SUZHOU BANX MOTOR TECH CO.,LTD

NO.852 Chengyang Road，Xiangcheng District，Suzhou City，Jiangsu Province，China

Sample Name :	Electric Bicycle Motor
SGS Job No. :	SP20-019884 - SH
SGS Ref No. :	SHHL2006523877OT
Tested Basic Model No. :	S118
Date of Sample Received :	01 Jul 2020
Verification Period :	01 Jul 2020 - 22 Sep 2020
Verification Requested :	With reference to RoHS Directive (EU) 2015/863 amending 2011/65/EU.
Verification Method :	Please refer to next page(s).
Verification Result :	Please refer to next page(s).
Verification Conclusion :	Based on the verification results of the submitted samples, the results of Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs) and Phthalates such as Bis(2-ethylhexyl) phthalate (DEHP) , Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) , and Diisobutyl phthalate (DIBP) comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

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

Jessica Chen

Jessica Chen
Approved Signatory

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Verification Method :

1. With reference to IEC 62321-2:2013, review was performed for the samples disjointed from the submitted articles.
2. With reference to IEC 62321-1:2013, tests were performed for the samples indicated by the photos in this report
(1) With reference to IEC 62321-3-1:2013, screening by EDXRF spectroscopy
(2) Wet chemical test method
a. With reference to IEC 62321-5:2013, determination of Cadmium by ICP-OES
b. With reference to IEC 62321-5:2013, determination of Lead by ICP-OES
c. With reference to IEC 62321-4:2013+A1:2017, determination of Mercury by ICP-OES
d. With reference to IEC 62321-7-1:2015, IEC 62321-7-2:2017 & ISO 17075-1:2017, determination of Hexavalent chromium by Colorimetric method using UV-Vis.
e. With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS
3. With reference to IEC 62321-8:2017, determination of phthalates by GC-MS.

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In accordance with the result of material risk assessment, the following disjointed parts in the submitted sample have been verified.

Part No.	Part Description	Restricted Substances	Results of EDXRF(1)	Screening Result of PHTH(2)	Result of Wet Chemical Testing(3) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
1	Black coating (shell)	Pb	BL	---	---	Comply	01 Jul 2020
		Cd	BL	---	---	Comply	
		Hg	BL	---	---	Comply	
		Cr(VI)▾	BL	---	---	Comply	
		PBBs	BL	---	---	Comply	
		PBDEs	BL	---	---	Comply	
		DBP	---	IN	128	Comply	
		BBP	---	IN	ND	Comply	
		DEHP	---	IN	700	Comply	
		DIBP	---	IN	ND	Comply	
2	Silvery metal (substrate) (shell)	Pb	BL	---	---	Comply	01 Jul 2020
		Cd	BL	---	---	Comply	
		Hg	BL	---	---	Comply	
		Cr(VI)▾	BL	---	---	Comply	
		PBBs	---	---	---	---	
		PBDEs	---	---	---	---	
		DBP	---	---	---	---	
		BBP	---	---	---	---	
		DEHP	---	---	---	---	
		DIBP	---	---	---	---	

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Part No.	Part Description	Restricted Substances	Results of EDXRF(1)	Screening Result of PHTH(2)	Result of Wet Chemical Testing(3) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
3	White grease	Pb	BL	---	---	Comply	01 Jul 2020
		Cd	BL	---	---	Comply	
		Hg	BL	---	---	Comply	
		Cr(VI)▾	BL	---	---	Comply	
		PBBs	BL	---	---	Comply	
		PBDEs	BL	---	---	Comply	
		DBP	---	IN	ND	Comply	
		BBP	---	IN	ND	Comply	
		DEHP	---	IN	ND	Comply	
		DIBP	---	IN	ND	Comply	
4	Black metal (small circlip)	Pb	IN	---	ND	Comply	01 Jul 2020
		Cd	BL	---	---	Comply	
		Hg	BL	---	---	Comply	
		Cr(VI)▾	IN	---	ND	Comply	
		PBBs	---	---	---	---	
		PBDEs	---	---	---	---	
		DBP	---	---	---	---	
		BBP	---	---	---	---	
		DEHP	---	---	---	---	
		DIBP	---	---	---	---	

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Part No.	Part Description	Restricted Substances	Results of EDXRF(1)	Screening Result of PHTH(2)	Result of Wet Chemical Testing(3) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
5	Black metal (bushing)	Pb	BL	---	---	Comply	01 Jul 2020
		Cd	BL	---	---	Comply	
		Hg	BL	---	---	Comply	
		Cr(VI)▾	IN	---	ND	Comply	
		PBBs	---	---	---	---	
		PBDEs	---	---	---	---	
		DBP	---	---	---	---	
		BBP	---	---	---	---	
		DEHP	---	---	---	---	
		DIBP	---	---	---	---	
6	Black metal (screw)	Pb	BL	---	---	Comply	01 Jul 2020
		Cd	BL	---	---	Comply	
		Hg	BL	---	---	Comply	
		Cr(VI)▾	IN	---	ND	Comply	
		PBBs	---	---	---	---	
		PBDEs	---	---	---	---	
		DBP	---	---	---	---	
		BBP	---	---	---	---	
		DEHP	---	---	---	---	
		DIBP	---	---	---	---	

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Part No.	Part Description	Restricted Substances	Results of EDXRF(1)	Screening Result of PHTH(2)	Result of Wet Chemical Testing(3) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
7	Silvery metal (nut)	Pb	BL	---	---	Comply	01 Jul 2020
		Cd	BL	---	---	Comply	
		Hg	BL	---	---	Comply	
		Cr(VI)▾	IN	---	ND	Comply	
		PBBs	---	---	---	---	
		PBDEs	---	---	---	---	
		DBP	---	---	---	---	
		BBP	---	---	---	---	
		DEHP	---	---	---	---	
		DIBP	---	---	---	---	
8	Black rubber (bushing)	Pb	BL	---	---	Comply	01 Jul 2020
		Cd	BL	---	---	Comply	
		Hg	BL	---	---	Comply	
		Cr(VI)▾	BL	---	---	Comply	
		PBBs	BL	---	---	Comply	
		PBDEs	BL	---	---	Comply	
		DBP	---	IN	ND	Comply	
		BBP	---	IN	ND	Comply	
		DEHP	---	IN	155	Comply	
		DIBP	---	IN	ND	Comply	

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Part No.	Part Description	Restricted Substances	Results of EDXRF(1)	Screening Result of PHTH(2)	Result of Wet Chemical Testing(3) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
9	Silvery metal (bushing)	Pb	BL	---	---	Comply	01 Jul 2020
		Cd	BL	---	---	Comply	
		Hg	BL	---	---	Comply	
		Cr(VI)▾	BL	---	---	Comply	
		PBBs	---	---	---	---	
		PBDEs	---	---	---	---	
		DBP	---	---	---	---	
		BBP	---	---	---	---	
		DEHP	---	---	---	---	
		DIBP	---	---	---	---	
10	Black rubber (dust cap) (bearing)	Pb	BL	---	---	Comply	01 Jul 2020
		Cd	BL	---	---	Comply	
		Hg	BL	---	---	Comply	
		Cr(VI)▾	BL	---	---	Comply	
		PBBs	BL	---	---	Comply	
		PBDEs	BL	---	---	Comply	
		DBP	---	IN	ND	Comply	
		BBP	---	IN	ND	Comply	
		DEHP	---	IN	ND	Comply	
		DIBP	---	IN	ND	Comply	

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Part No.	Part Description	Restricted Substances	Results of EDXRF(1)	Screening Result of PHTH(2)	Result of Wet Chemical Testing(3) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
11	Silvery metal (dust cap) (bearing)	Pb	BL	---	---	Comply	01 Jul 2020
		Cd	BL	---	---	Comply	
		Hg	BL	---	---	Comply	
		Cr(VI)▾	BL	---	---	Comply	
		PBBs	---	---	---	---	
		PBDEs	---	---	---	---	
		DBP	---	---	---	---	
		BBP	---	---	---	---	
		DEHP	---	---	---	---	
		DIBP	---	---	---	---	
12	Silvery metal (outer ring) (bearing)	Pb	BL	---	---	Comply	01 Jul 2020
		Cd	BL	---	---	Comply	
		Hg	BL	---	---	Comply	
		Cr(VI)▾	IN	---	ND	Comply	
		PBBs	---	---	---	---	
		PBDEs	---	---	---	---	
		DBP	---	---	---	---	
		BBP	---	---	---	---	
		DEHP	---	---	---	---	
		DIBP	---	---	---	---	

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Part No.	Part Description	Restricted Substances	Results of EDXRF(1)	Screening Result of PHTH(2)	Result of Wet Chemical Testing(3) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
13	Silvery metal (dust cap) (bearing) (gear plate)	Pb	BL	---	---	Comply	01 Jul 2020
		Cd	BL	---	---	Comply	
		Hg	BL	---	---	Comply	
		Cr(VI)▼	BL	---	---	Comply	
		PBBs	---	---	---	---	
		PBDEs	---	---	---	---	
		DBP	---	---	---	---	
		BBP	---	---	---	---	
		DEHP	---	---	---	---	
		DIBP	---	---	---	---	
14	White plastic (gear) (gear plate)	Pb	BL	---	---	Comply	01 Jul 2020
		Cd	BL	---	---	Comply	
		Hg	BL	---	---	Comply	
		Cr(VI)▼	BL	---	---	Comply	
		PBBs	BL	---	---	Comply	
		PBDEs	BL	---	---	Comply	
		DBP	---	IN	ND	Comply	
		BBP	---	IN	ND	Comply	
		DEHP	---	IN	ND	Comply	
		DIBP	---	IN	ND	Comply	

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Part No.	Part Description	Restricted Substances	Results of EDXRF(1)	Screening Result of PHTH(2)	Result of Wet Chemical Testing(3) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
15	Silvery metal (gear plate)	Pb	BL	---	---	Comply	01 Jul 2020
		Cd	BL	---	---	Comply	
		Hg	BL	---	---	Comply	
		Cr(VI)▾	IN	---	ND	Comply	
		PBBs	---	---	---	---	
		PBDEs	---	---	---	---	
		DBP	---	---	---	---	
		BBP	---	---	---	---	
		DEHP	---	---	---	---	
		DIBP	---	---	---	---	
16	Silvery metal (cover plate) (gear plate)	Pb	BL	---	---	Comply	01 Jul 2020
		Cd	BL	---	---	Comply	
		Hg	BL	---	---	Comply	
		Cr(VI)▾	BL	---	---	Comply	
		PBBs	---	---	---	---	
		PBDEs	---	---	---	---	
		DBP	---	---	---	---	
		BBP	---	---	---	---	
		DEHP	---	---	---	---	
		DIBP	---	---	---	---	

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Part No.	Part Description	Restricted Substances	Results of EDXRF(1)	Screening Result of PHTH(2)	Result of Wet Chemical Testing(3) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
17	Silvery metal (rivet) (cover plate) (gear plate)	Pb	BL	---	---	Comply	01 Jul 2020
		Cd	BL	---	---	Comply	
		Hg	BL	---	---	Comply	
		Cr(VI)▼	BL	---	---	Comply	
		PBBs	---	---	---	---	
		PBDEs	---	---	---	---	
		DBP	---	---	---	---	
		BBP	---	---	---	---	
		DEHP	---	---	---	---	
		DIBP	---	---	---	---	
18	Silvery metal (gear sheath) (gear plate)	Pb	BL	---	---	Comply	01 Jul 2020
		Cd	BL	---	---	Comply	
		Hg	BL	---	---	Comply	
		Cr(VI)▼	IN	---	ND	Comply	
		PBBs	---	---	---	---	
		PBDEs	---	---	---	---	
		DBP	---	---	---	---	
		BBP	---	---	---	---	
		DEHP	---	---	---	---	
		DIBP	---	---	---	---	

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Part No.	Part Description	Restricted Substances	Results of EDXRF(1)	Screening Result of PHTH(2)	Result of Wet Chemical Testing(3) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
19	Silvery metal (substrate) (end cover)	Pb	BL	---	---	Comply	01 Jul 2020
		Cd	BL	---	---	Comply	
		Hg	BL	---	---	Comply	
		Cr(VI)▾	BL	---	---	Comply	
		PBBs	---	---	---	---	
		PBDEs	---	---	---	---	
		DBP	---	---	---	---	
		BBP	---	---	---	---	
		DEHP	---	---	---	---	
		DIBP	---	---	---	---	
20	White plastic (bushing)	Pb	BL	---	---	Comply	01 Jul 2020
		Cd	BL	---	---	Comply	
		Hg	BL	---	---	Comply	
		Cr(VI)▾	BL	---	---	Comply	
		PBBs	BL	---	---	Comply	
		PBDEs	BL	---	---	Comply	
		DBP	---	IN	ND	Comply	
		BBP	---	IN	ND	Comply	
		DEHP	---	IN	ND	Comply	
		DIBP	---	IN	ND	Comply	

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Part No.	Part Description	Restricted Substances	Results of EDXRF(1)	Screening Result of PHTH(2)	Result of Wet Chemical Testing(3) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
21	Silvery metal (screw)	Pb	BL	---	---	Comply	01 Jul 2020
		Cd	BL	---	---	Comply	
		Hg	BL	---	---	Comply	
		Cr(VI)▾	IN	---	ND	Comply	
		PBBs	---	---	---	---	
		PBDEs	---	---	---	---	
		DBP	---	---	---	---	
		BBP	---	---	---	---	
		DEHP	---	---	---	---	
		DIBP	---	---	---	---	
22	Silvery metal (buckle)	Pb	BL	---	---	Comply	01 Jul 2020
		Cd	BL	---	---	Comply	
		Hg	BL	---	---	Comply	
		Cr(VI)▾	BL	---	---	Comply	
		PBBs	---	---	---	---	
		PBDEs	---	---	---	---	
		DBP	---	---	---	---	
		BBP	---	---	---	---	
		DEHP	---	---	---	---	
		DIBP	---	---	---	---	

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Part No.	Part Description	Restricted Substances	Results of EDXRF(1)	Screening Result of PHTH(2)	Result of Wet Chemical Testing(3) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
23	Black metal (hoop)	Pb	BL	---	---	Comply	01 Jul 2020
		Cd	BL	---	---	Comply	
		Hg	BL	---	---	Comply	
		Cr(VI)▾	IN	---	ND	Comply	
		PBBs	---	---	---	---	
		PBDEs	---	---	---	---	
		DBP	---	---	---	---	
		BBP	---	---	---	---	
		DEHP	---	---	---	---	
		DIBP	---	---	---	---	
24	Black metal (big circlip)	Pb	BL	---	---	Comply	01 Jul 2020
		Cd	BL	---	---	Comply	
		Hg	BL	---	---	Comply	
		Cr(VI)▾	IN	---	ND	Comply	
		PBBs	---	---	---	---	
		PBDEs	---	---	---	---	
		DBP	---	---	---	---	
		BBP	---	---	---	---	
		DEHP	---	---	---	---	
		DIBP	---	---	---	---	

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Part No.	Part Description	Restricted Substances	Results of EDXRF(1)	Screening Result of PHTH(2)	Result of Wet Chemical Testing(3) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
25	Black metal (shaft) (rotor)	Pb	BL	---	---	Comply	01 Jul 2020
		Cd	BL	---	---	Comply	
		Hg	BL	---	---	Comply	
		Cr(VI)▾	IN	---	ND	Comply	
		PBBs	---	---	---	---	
		PBDEs	---	---	---	---	
		DBP	---	---	---	---	
		BBP	---	---	---	---	
		DEHP	---	---	---	---	
		DIBP	---	---	---	---	
26	Silvery metal (shell) (rotor)	Pb	BL	---	---	Comply	01 Jul 2020
		Cd	BL	---	---	Comply	
		Hg	BL	---	---	Comply	
		Cr(VI)▾	BL	---	---	Comply	
		PBBs	---	---	---	---	
		PBDEs	---	---	---	---	
		DBP	---	---	---	---	
		BBP	---	---	---	---	
		DEHP	---	---	---	---	
		DIBP	---	---	---	---	

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Part No.	Part Description	Restricted Substances	Results of EDXRF(1)	Screening Result of PHTH(2)	Result of Wet Chemical Testing(3) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
27	Silvery metal (fixed bracket) (rotor)	Pb	BL	---	---	Comply	01 Jul 2020
		Cd	BL	---	---	Comply	
		Hg	BL	---	---	Comply	
		Cr(VI)▾	BL	---	---	Comply	
		PBBs	---	---	---	---	
		PBDEs	---	---	---	---	
		DBP	---	---	---	---	
		BBP	---	---	---	---	
		DEHP	---	---	---	---	
		DIBP	---	---	---	---	
28	Yellow plastic (bracket) (rotor)	Pb	BL	---	---	Comply	01 Jul 2020
		Cd	BL	---	---	Comply	
		Hg	BL	---	---	Comply	
		Cr(VI)▾	BL	---	---	Comply	
		PBBs	IN	---	ND	Comply	
		PBDEs	IN	---	ND	Comply	
		DBP	---	IN	ND	Comply	
		BBP	---	IN	ND	Comply	
		DEHP	---	IN	ND	Comply	
		DIBP	---	IN	ND	Comply	

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Part No.	Part Description	Restricted Substances	Results of EDXRF(1)	Screening Result of PHTH(2)	Result of Wet Chemical Testing(3) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
29	Blue plastic (sealed washer) (PCB)	Pb	BL	---	---	Comply	01 Jul 2020
		Cd	BL	---	---	Comply	
		Hg	BL	---	---	Comply	
		Cr(VI)▾	BL	---	---	Comply	
		PBBs	BL	---	---	Comply	
		PBDEs	BL	---	---	Comply	
		DBP	---	IN	ND	Comply	
		BBP	---	IN	ND	Comply	
		DEHP	---	IN	ND	Comply	
		DIBP	---	IN	ND	Comply	
30	Black IC (body) (PCB)	Pb	IN	---	ND	Comply	01 Jul 2020
		Cd	BL	---	---	Comply	
		Hg	BL	---	---	Comply	
		Cr(VI)▾	BL	---	---	Comply	
		PBBs	IN	---	ND	Comply	
		PBDEs	IN	---	ND	Comply	
		DBP	---	IN	ND	Comply	
		BBP	---	IN	ND	Comply	
		DEHP	---	IN	ND	Comply	
		DIBP	---	IN	ND	Comply	

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Part No.	Part Description	Restricted Substances	Results of EDXRF(1)	Screening Result of PHTH(2)	Result of Wet Chemical Testing(3) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
31	Silvery metal (soldering tin) (PCB)	Pb	BL	---	---	Comply	01 Jul 2020
		Cd	BL	---	---	Comply	
		Hg	BL	---	---	Comply	
		Cr(VI)▾	BL	---	---	Comply	
		PBBs	---	---	---	---	
		PBDEs	---	---	---	---	
		DBP	---	---	---	---	
		BBP	---	---	---	---	
		DEHP	---	---	---	---	
		DIBP	---	---	---	---	
32	Green PCB (body)	Pb	BL	---	---	Comply	01 Jul 2020
		Cd	BL	---	---	Comply	
		Hg	BL	---	---	Comply	
		Cr(VI)▾	BL	---	---	Comply	
		PBBs	IN	---	ND	Comply	
		PBDEs	IN	---	ND	Comply	
		DBP	---	IN	ND	Comply	
		BBP	---	IN	ND	Comply	
		DEHP	---	IN	ND	Comply	
		DIBP	---	IN	ND	Comply	

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Part No.	Part Description	Restricted Substances	Results of EDXRF(1)	Screening Result of PHTH(2)	Result of Wet Chemical Testing(3) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
33	Silvery metal (anti-fold spring) (wire)	Pb	BL	---	---	Comply	01 Jul 2020
		Cd	BL	---	---	Comply	
		Hg	BL	---	---	Comply	
		Cr(VI)▼	BL	---	---	Comply	
		PBBs	---	---	---	---	
		PBDEs	---	---	---	---	
		DBP	---	---	---	---	
		BBP	---	---	---	---	
		DEHP	---	---	---	---	
		DIBP	---	---	---	---	
34	Black plastic (sheath) (wire)	Pb	BL	---	---	Comply	01 Jul 2020
		Cd	BL	---	---	Comply	
		Hg	BL	---	---	Comply	
		Cr(VI)▼	BL	---	---	Comply	
		PBBs	BL	---	---	Comply	
		PBDEs	BL	---	---	Comply	
		DBP	---	IN	ND	Comply	
		BBP	---	IN	ND	Comply	
		DEHP	---	IN	532	Comply	
		DIBP	---	IN	ND	Comply	

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Part No.	Part Description	Restricted Substances	Results of EDXRF(1)	Screening Result of PHTH(2)	Result of Wet Chemical Testing(3) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
35	Black plastic (outer jacket) (wire)	Pb	BL	---	---	Comply	01 Jul 2020
		Cd	BL	---	---	Comply	
		Hg	BL	---	---	Comply	
		Cr(VI)▼	BL	---	---	Comply	
		PBBs	BL	---	---	Comply	
		PBDEs	BL	---	---	Comply	
		DBP	---	IN	ND	Comply	
		BBP	---	IN	ND	Comply	
		DEHP	---	IN	ND	Comply	
		DIBP	---	IN	ND	Comply	
36	Black plastic (inner jacket) (wire)	Pb	BL	---	---	Comply	01 Jul 2020
		Cd	BL	---	---	Comply	
		Hg	BL	---	---	Comply	
		Cr(VI)▼	BL	---	---	Comply	
		PBBs	BL	---	---	Comply	
		PBDEs	BL	---	---	Comply	
		DBP	---	IN	ND	Comply	
		BBP	---	IN	ND	Comply	
		DEHP	---	IN	ND	Comply	
		DIBP	---	IN	ND	Comply	

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Part No.	Part Description	Restricted Substances	Results of EDXRF(1)	Screening Result of PHTH(2)	Result of Wet Chemical Testing(3) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
37	White plastic (inner jacket) (wire)	Pb	BL	---	---	Comply	01 Jul 2020
		Cd	BL	---	---	Comply	
		Hg	BL	---	---	Comply	
		Cr(VI)▼	BL	---	---	Comply	
		PBBs	BL	---	---	Comply	
		PBDEs	BL	---	---	Comply	
		DBP	---	IN	ND	Comply	
		BBP	---	IN	ND	Comply	
		DEHP	---	IN	ND	Comply	
		DIBP	---	IN	ND	Comply	
38	Red plastic (inner jacket) (wire)	Pb	BL	---	---	Comply	01 Jul 2020
		Cd	BL	---	---	Comply	
		Hg	BL	---	---	Comply	
		Cr(VI)▼	BL	---	---	Comply	
		PBBs	BL	---	---	Comply	
		PBDEs	BL	---	---	Comply	
		DBP	---	IN	ND	Comply	
		BBP	---	IN	ND	Comply	
		DEHP	---	IN	ND	Comply	
		DIBP	---	IN	ND	Comply	

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Part No.	Part Description	Restricted Substances	Results of EDXRF(1)	Screening Result of PHTH(2)	Result of Wet Chemical Testing(3) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
39	Green plastic (inner jacket) (wire)	Pb	BL	---	---	Comply	01 Jul 2020
		Cd	BL	---	---	Comply	
		Hg	BL	---	---	Comply	
		Cr(VI)▼	BL	---	---	Comply	
		PBBs	BL	---	---	Comply	
		PBDEs	BL	---	---	Comply	
		DBP	---	IN	ND	Comply	
		BBP	---	IN	ND	Comply	
		DEHP	---	IN	ND	Comply	
		DIBP	---	IN	ND	Comply	
40	Blue plastic (inner jacket) (wire)	Pb	BL	---	---	Comply	01 Jul 2020
		Cd	BL	---	---	Comply	
		Hg	BL	---	---	Comply	
		Cr(VI)▼	BL	---	---	Comply	
		PBBs	BL	---	---	Comply	
		PBDEs	BL	---	---	Comply	
		DBP	---	IN	ND	Comply	
		BBP	---	IN	ND	Comply	
		DEHP	---	IN	ND	Comply	
		DIBP	---	IN	ND	Comply	

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Part No.	Part Description	Restricted Substances	Results of EDXRF(1)	Screening Result of PHTH(2)	Result of Wet Chemical Testing(3) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
41	Yellow plastic (inner jacket) (wire)	Pb	IN	---	ND	Comply	01 Jul 2020
		Cd	BL	---	---	Comply	
		Hg	BL	---	---	Comply	
		Cr(VI)▼	BL	---	---	Comply	
		PBBs	BL	---	---	Comply	
		PBDEs	BL	---	---	Comply	
		DBP	---	IN	ND	Comply	
		BBP	---	IN	ND	Comply	
		DEHP	---	IN	ND	Comply	
		DIBP	---	IN	ND	Comply	
42	Black plastic (shell) (plug) (wire)	Pb	BL	---	---	Comply	01 Jul 2020
		Cd	BL	---	---	Comply	
		Hg	BL	---	---	Comply	
		Cr(VI)▼	BL	---	---	Comply	
		PBBs	BL	---	---	Comply	
		PBDEs	BL	---	---	Comply	
		DBP	---	IN	ND	Comply	
		BBP	---	IN	ND	Comply	
		DEHP	---	IN	113	Comply	
		DIBP	---	IN	ND	Comply	

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Part No.	Part Description	Restricted Substances	Results of EDXRF(1)	Screening Result of PHTH(2)	Result of Wet Chemical Testing(3) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
43	Golden metal (pin) (plug) (wire)	Pb	BL	---	---	Comply	01 Jul 2020
		Cd	BL	---	---	Comply	
		Hg	BL	---	---	Comply	
		Cr(VI)▾	BL	---	---	Comply	
		PBBs	---	---	---	---	
		PBDEs	---	---	---	---	
		DBP	---	---	---	---	
		BBP	---	---	---	---	
		DEHP	---	---	---	---	
		DIBP	---	---	---	---	
44	White plastic (sheath) (plug) (wire)	Pb	BL	---	---	Comply	01 Jul 2020
		Cd	BL	---	---	Comply	
		Hg	BL	---	---	Comply	
		Cr(VI)▾	BL	---	---	Comply	
		PBBs	BL	---	---	Comply	
		PBDEs	BL	---	---	Comply	
		DBP	---	IN	ND	Comply	
		BBP	---	IN	ND	Comply	
		DEHP	---	IN	ND	Comply	
		DIBP	---	IN	ND	Comply	

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Part No.	Part Description	Restricted Substances	Results of EDXRF(1)	Screening Result of PHTH(2)	Result of Wet Chemical Testing(3) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
45	White plastic (sticky paper) (sealed ring)	Pb	BL	---	---	Comply	01 Jul 2020
		Cd	BL	---	---	Comply	
		Hg	BL	---	---	Comply	
		Cr(VI)▾	BL	---	---	Comply	
		PBBs	BL	---	---	Comply	
		PBDEs	BL	---	---	Comply	
		DBP	---	IN	ND	Comply	
		BBP	---	IN	ND	Comply	
		DEHP	---	IN	197	Comply	
		DIBP	---	IN	ND	Comply	

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Remark

(1) (a) There are the results on total Br while test items on restricted substances are PBBs and PBDEs. There is the result on total Cr while test item on restricted substances is Cr(VI).

(b) Results are obtained by EDXRF for primary screening, and further chemical testing by ICP-OES (for Cd, Pb, Hg), UV-Vis (for Cr(VI)) and GC-MS (for PBBs, PBDEs) is recommended to be performed if the concentration exceeds the below warning value according to IEC62321-3-1:2013 (unit: mg/kg).

Element	Polymer	Metal	Composite Materials
Cd	BL≤(70-3 σ)<X<(130+3 σ)≤OL	BL≤(70-3 σ)<X<(130+3 σ)≤OL	LOD<X<(150+3 σ)≤OL
Pb	BL≤(700-3 σ)<X<(1300+3 σ)≤OL	BL≤(700-3 σ)<X<(1300+3 σ)≤OL	BL≤(500-3 σ)<X<(1500+3 σ)≤OL
Hg	BL≤(700-3 σ)<X<(1300+3 σ) ≤OL	BL≤(700-3 σ)<X<(1300+3 σ) ≤OL	BL≤(500-3 σ)<X<(1500+3 σ) ≤OL
Br	BL ≤(300-3 σ)<X	--	BL ≤(250-3 σ)<X
Cr	BL ≤(700-3 σ)<X	BL ≤(700-3 σ)<X	BL ≤(500-3 σ)<X

(c) BL = Below Limit, OL = Over Limit, IN = Inconclusive, LOD = Limit of Detection, -- = Not regulated.

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

(2) Screening results of PHTH are for primary screening, and further chemical testing by GC-MS (for DBP, BBP, DEHP and DIBP) are recommended to be performed if the concentration exceeds the below warning value(unit: mg/kg).

Compound	Polymer
DBP	BL ≤ 600< X
BBP	BL ≤ 600< X
DEHP	BL ≤ 600< X
DIBP	BL ≤ 600< X

(3) (a) mg/kg = 0.0001%, MDL=Method detection Limit, ND = Not Detected (<MDL), --- = Not conducted, - = Without BOM.

(b) Unit and MDL in wet chemical test

Test Item	Pb	Cd	Hg	DBP	BBP	DEHP	DIBP
Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
MDL	10	10	10	100	100	100	100

The MDL for single compound of PBBs and PBDEs is 100 mg/kg,
MDL of Cr(VI) for polymer, composite and leather sample is 10 mg/kg.
MDL of Cr(VI) for metal sample is 0.10μg/cm².

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(c) ▼=Metal sample

a. The sample is positive for CrVI if the CrVI concentration is greater than 0.13 μg/cm^2 . The sample coating is considered to contain CrVI

b. The sample is negative for CrVI if CrVI is ND (concentration less than 0.10 μg/cm^2). The coating is considered a non-CrVI based coating

c. The result between 0.10 μg/cm^2 and 0.13 μg/cm^2 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.

(4) Restricted substances and maximum concentration values tolerated by weight in homogeneous materials under RoHS Directive: Cd: 0.01%, Pb/Hg/Cr(VI)/PBBs/PBDEs/DEHP/DBP/BBP/DIBP: 0.1%. The 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

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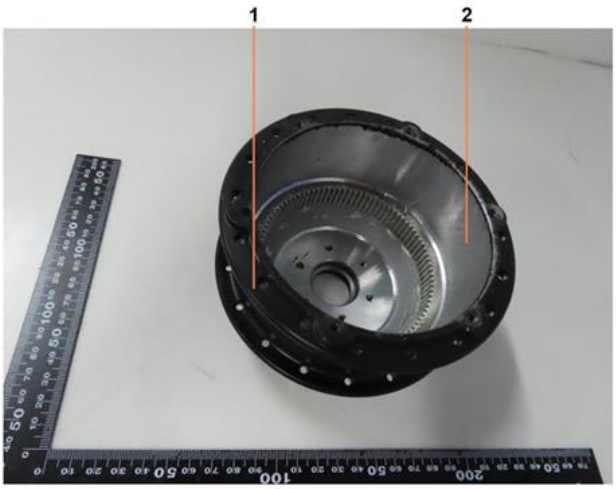
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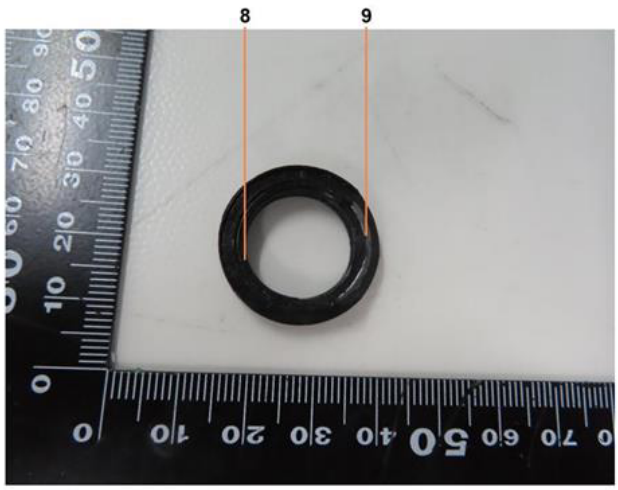
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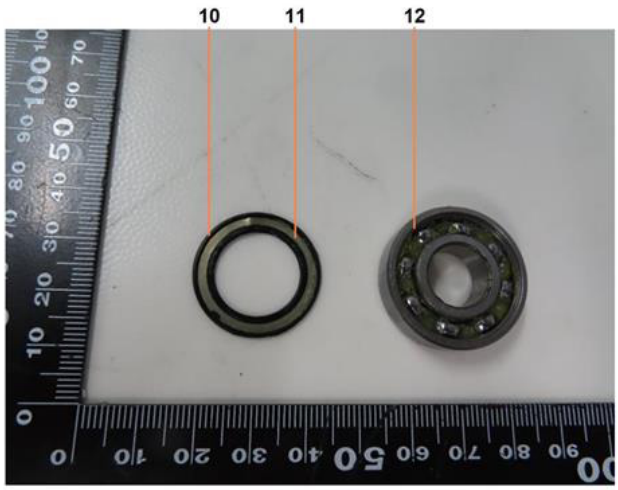
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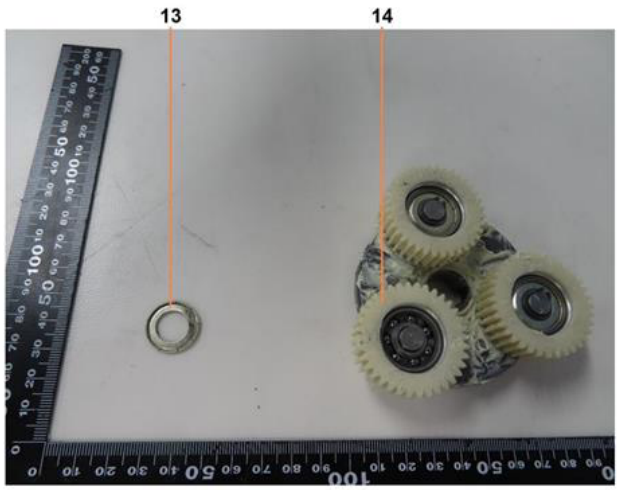
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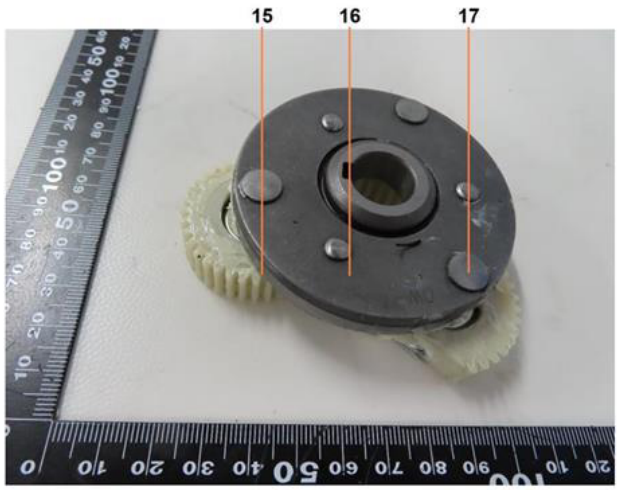
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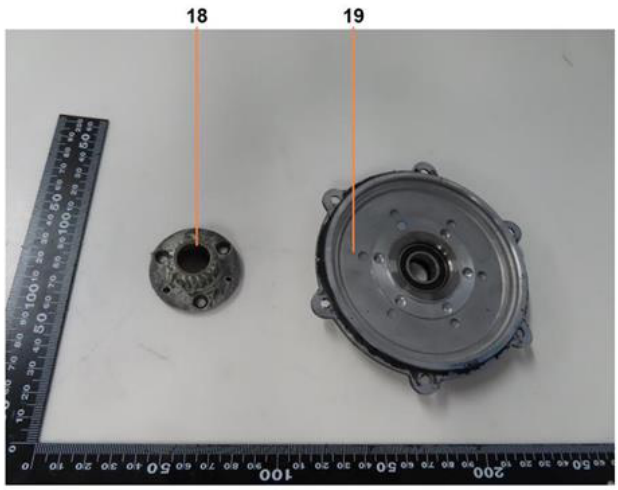
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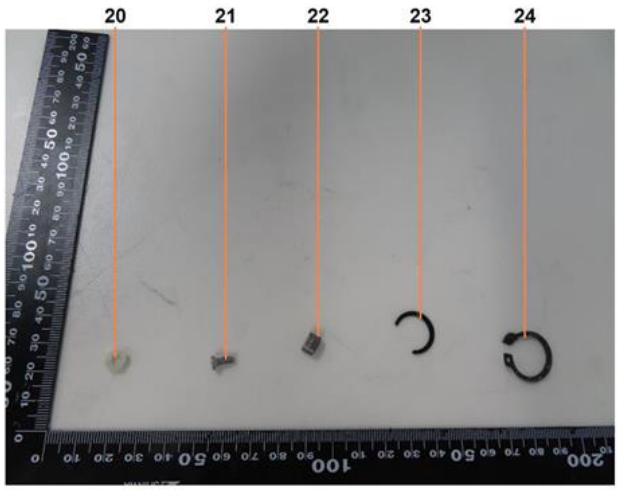
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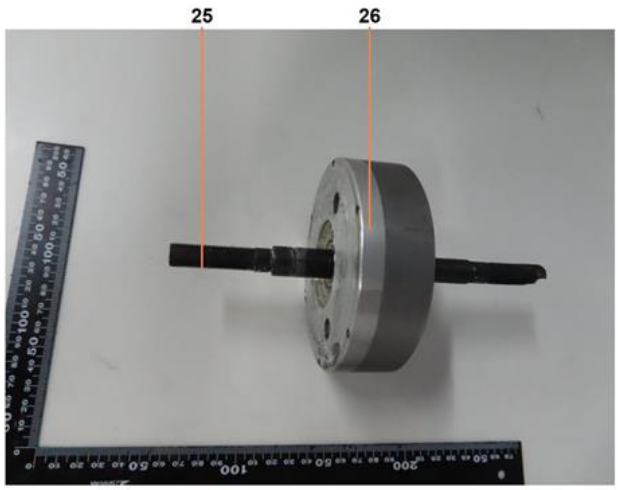
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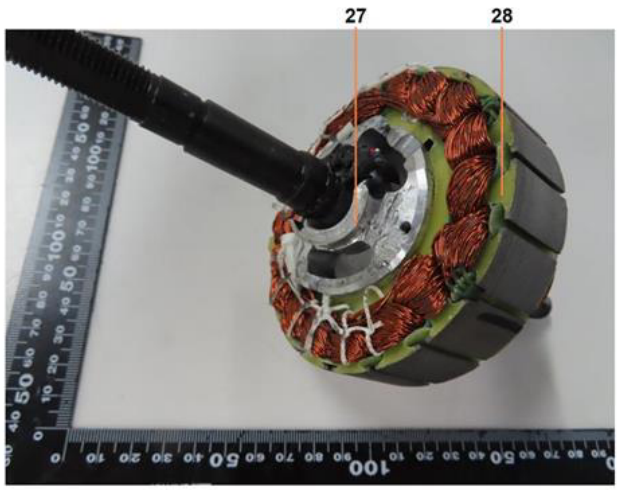
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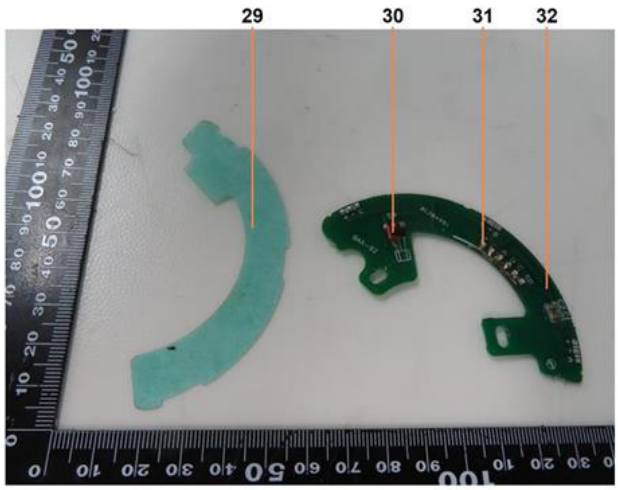
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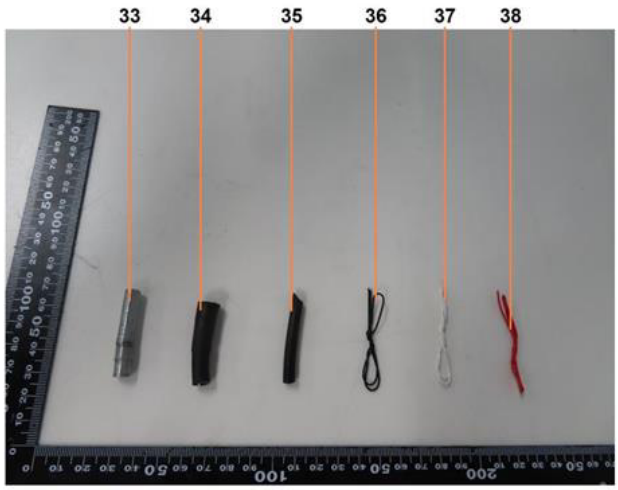
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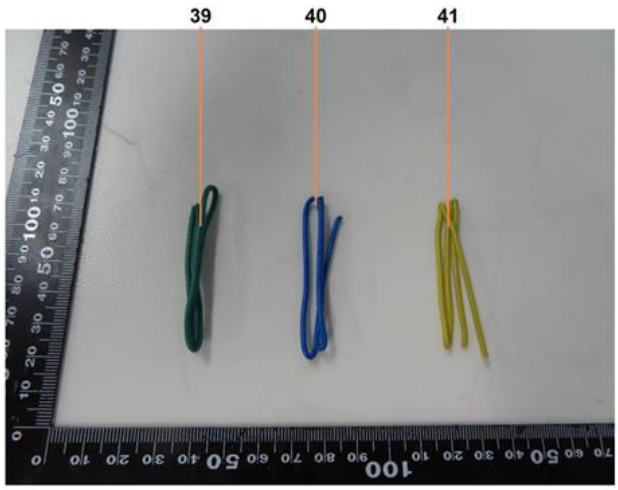
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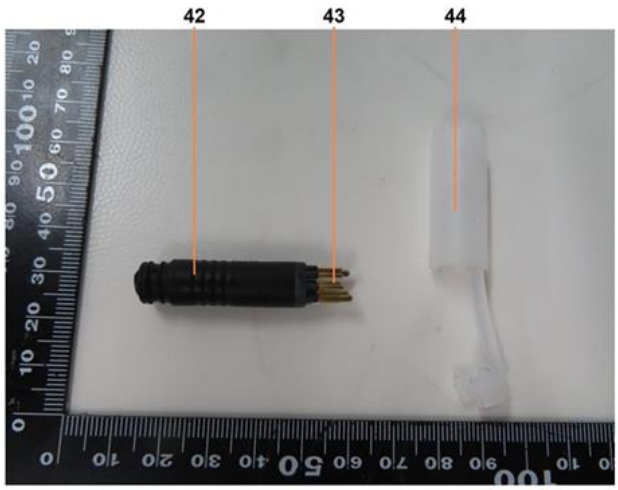
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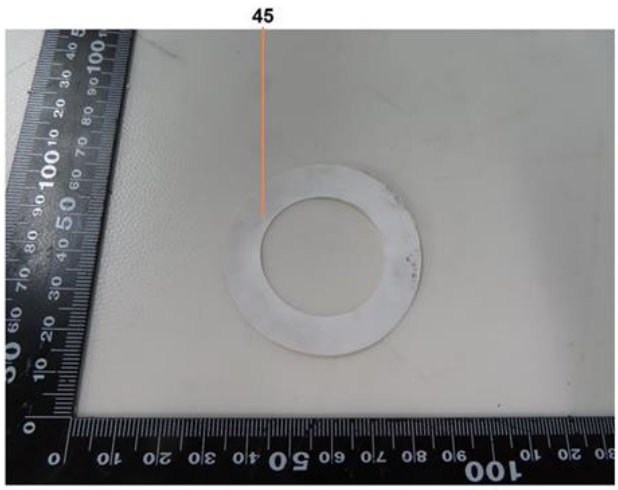
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