

Verification Report No. SZXEC2101015802 Date: 08 Jun 2021 Page 1 of 10

PROMOVER INDUSTRIAL (SHENZHEN) CO., LTD.

FLOOR 3, BUILDING 12, TANGWEI FUYUAN INDUSTRIAL PARK, FUYONG TOWN, BAO`AN, DISTRICT, SHENZHEN CITY, GUANGDONG

Sample Name : SMD Buzzer

SGS Job No.: RP21-007863 - SZ

Tested Basic Model No. (P.O.

No.):

Country of Origin: CHINA

Date of Sample Received: 12 Apr 2021

Verification Period: 12 Apr 2021 - 31 May 2021

P-HPE-

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 Co., Ltd. Shenzhen Branch



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: With reference to IEC 62321-4:2013+A1:2017, IEC62321-5:2013, IEC 62321-7-1:2015, IEC 62321-7-2:2017, ISO 17075-1:2017, IEC 62321-6:2015 and IEC62321-8:2017, analyzed by ICP-OES,UV-Vis and GC-MS.



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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
1	Black plastic shell	Pb	BL			Comply	
		Cd	BL			Comply	12 Apr 2021
		Hg	BL			Comply	12 Apr 2021
		Cr(VI)▼	BL			Comply	
		PBBs	BL			Comply	
		PBDEs	BL			Comply	
		DBP			ND	Comply	
		BBP			ND	Comply	
		DEHP			ND	Comply	
		DIBP			ND	Comply	
2	Silvery metal pin with	Pb	BL			Comply	
_	golden surface	Cd	BL			Comply	12 Apr 2021
		Hg	BL			Comply	12 Apr 2021
		Cr(VI)▼	BL			Comply	
		PBBs					
		PBDEs					
		DBP					
		BBP					
		DEHP					
		DIBP					
3	Silvery metal plate	Pb	BL			Comply	
	January motor place	Cd	BL			Comply	12 Apr 2024
		Hg	BL			Comply	12 Apr 2021
		Cr(VI)▼	BL			Comply	
		PBBs					
		PBDEs					
		DBP					



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Part No.	Part Description	Restricted Substances	Results of EDXRF(1)	-	Result of Wet Chemical Testing(3) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
		BBP					
		DEHP					
		DIBP					
4	Silvery metal plate	Pb	BL			Comply	
		Cd	BL			Comply	12 Apr 2021
		Hg	BL			Comply	1271012021
		Cr(VI)▼	BL			Comply	
		PBBs					
		PBDEs					
		DBP					
		BBP					
		DEHP					
		DIBP					
5	Silvery metal part	Pb	BL			Comply	
		Cd	BL			Comply	12 Apr 2021
		Hg	BL			Comply	12 Apr 2021
		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
6	Golden metal washer with	Pb	BL			Comply	
	black surface	Cd	BL			Comply	12 Apr 2021
		Hg	BL			Comply	1271012021
		Cr(VI)▼	BL			Comply	
		PBBs					
		PBDEs					
		DBP					
		BBP					
		DEHP					
		DIBP					
7	Black magnet	Pb	BL			Comply	
	Diagnot Magnot	Cd	BL			Comply	12 Apr 2021
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs	BL			Comply	
		PBDEs	BL			Comply	
		DBP					
		BBP					
		DEHP					
		DIBP					
8	Black plastic shell	Pb	BL			Comply	
-		Cd	BL			Comply	27 May 2021
		Hg	BL			Comply	ZI IVIAY ZUZI
		Cr(VI)▼	BL			Comply	
		PBBs	BL			Comply	
		PBDEs	BL			Comply	
		DBP			ND	Comply	



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		BBP			ND	Comply	
		DEHP			ND	Comply	
		DIBP			ND	Comply	
9	Green enameled wire	Pb	BL			Comply	
	or con cinamona mil	Cd	BL			Comply	27 May 2021
		Hg	BL			Comply	27 Way 2021
		Cr(VI)▼	BL			Comply	
		PBBs	BL			Comply	
		PBDEs	BL			Comply	
		DBP			<600*	Comply	
		BBP			<600*	Comply	
		DEHP			<600*	Comply	
		DIBP			<600*	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 ≤(70-3σ)< 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
Br	BL ≤ (300-3σ)< X		BL ≤ (250-3σ)< X
Cr	BL ≤ (700-3σ)< X	BL ≤ (700-3σ)< X	BL ≤ (500-3σ)< 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						
MDL	10	10	10	100	100	100	100



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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.

(c) ▼ =Metal sample

- a. The sample is positive for CrVI if the CrVI concentration is greater than $0.13 \,\mu g/cm^2$. The sample coating is considered to contain CrVI
- b. The sample is negative for CrVI if CrVI is ND (concentration less than $0.10 \ \mu g/cm^2$). The coating is considered a non-CrVI based coating
- c. The result between 0.10 μ g/cm² and 0.13 μ g/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.

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:125863
7,25>

- (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.
- (5) * = Considering insufficient sample amount, the Method Detection Limit (MDL) is raised appropriately.



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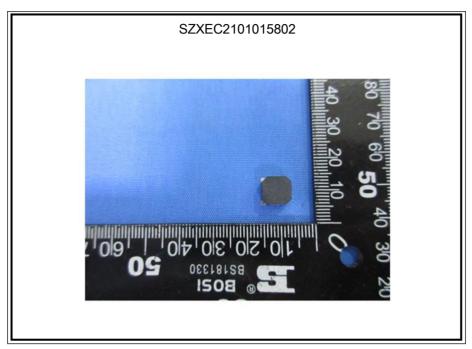


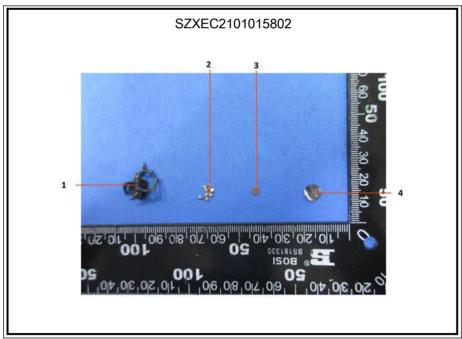
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Sample photo:







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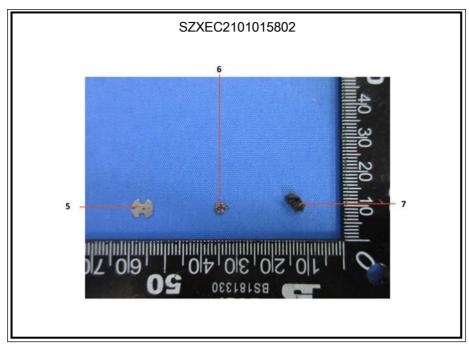
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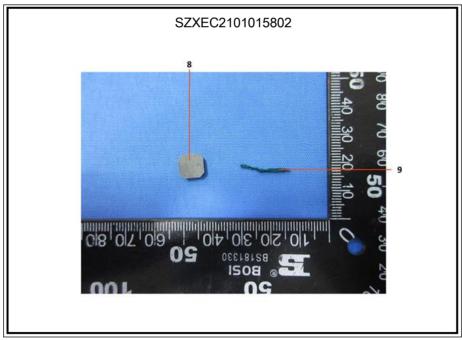


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