

Test Report

No. SHAAUTO2302025501

Date: 24 Mar 2023

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Client Name : Digit Stamping Technology (Wuhan) Limited

Client Address : ChangFu Industrial Area No.19, Caidian Economic Development Zone, Wuhan, Hubei Province, China

Sample Name : ASSY SEALING COVER REAR EXTENDED

Part No. (P/N) : P11-HT73CN-00

Material and Mark : Q/BQB 430 DC06E+Z 50/50

The above sample(s) and information were provided by the client.

SGS Job No. : WHAT2303001626OH - SH

Date of Sample Received : 17 Mar 2023

Testing Period : 17 Mar 2023 - 24 Mar 2023

Test Requested : As specified by applicant, determination of Cadmium, Lead, Mercury, Hexavalent Chromium in automotive materials, and determination of PBBs/ PBDEs in nonmetallic material, with reference to GB/T 30512-2014.

Test Method(s) : Please refer to next page(s).

Test Result(s) : Please refer to next page(s).

Conclusion : Based on the performed tests on submitted samples as specified by applicant, the test results of Cadmium, Lead, Mercury, Hexavalent Chromium in automotive materials and PBBs/ PBDEs in nonmetallic material, comply with GB/T 30512-2014.

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



Tony Xu
Approved Signatory



SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.
Testing Center-China Head Office

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Test Method(s) :

Tests was performed for the samples indicated by the photos in this report with reference to QC/T 943-2013, QC/T 941-2013, QC/T 942-2013, QC/T 944-2013.

(1) Screening by EDXRF Spectroscopy.

(2) Wet Chemical Test Method:

a. Determination of Lead & Cadmium by ICP-OES.

b. Determination of Mercury by ICP-OES.

c. Determination of Hexavalent Chromium by spot test / Colorimetric Method using UV-Vis.

d. Determination of PBBs and PBDEs by GC-MS.

Part No.	Part Description	BOM No.	Restricted Substances	Results of EDXRF ⁽¹⁾	Result of Wet Chemical Testing ⁽²⁾ (mg/kg)	Conclusion on GB/T 30512-2014	Sample Submitted / Resubmitted Date
1	Black coating		Pb Cd Hg Cr(VI) PBBs PBDEs	P P P P P P	--- --- --- --- --- ---	Comply Comply Comply Comply Comply Comply	17 Mar 2023
2	Silvery metal (substrate)		Pb Cd Hg Cr(VI) PBBs PBDEs	P P P X --- ---	--- --- --- Negative --- ---	Comply Comply Comply Comply --- ---	17 Mar 2023



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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)), GC-MS (for PBBs, PBDEs) is recommended to be performed, if the concentration exceeds the below warning value according to QC/T 943-2013, QC/T 941-2013, QC/T 942-2013, QC/T 944-2013. (unit: mg/kg).

Element	Polymer	Metal	Others
Cd	$P \leq (70-3S) < X < (130+3S) \leq F$	$P \leq (70-3S) < X < (130+3S) \leq F$	$LOD < X < (150+3S) \leq F$
Pb	$P \leq (700-3S) < X < (1300+3S) \leq F$	$P \leq (700-3S) < X < (1300+3S) \leq F$	$P \leq (500-3S) < X < (1500+3S) \leq F$
Hg	$P \leq (700-3S) < X < (1300+3S) \leq F$	$P \leq (700-3S) < X < (1300+3S) \leq F$	$P \leq (500-3S) < X < (1500+3S) \leq F$

Element	Polymer	Others
Cr	$P \leq (700-3S) < X$	$P \leq (500-3S) < X$

Element	Polymer	Electronic element
Br	$P \leq (300-3S) < X$	$P \leq (250-3S) < X$

(c) P = Pass, F = Fail, X = Inconclusive, LOD = Limit of Detection.

(2) (a) mg/kg = 0.0001%, MDL=Method detection limit, ND = Not detected (<MDL), --- = Not conducted.

(b) Unit and MDL in wet chemical test

Test Item	Pb	Cd	Hg
Unit	mg/kg	mg/kg	mg/kg
MDL	2	2	2

The MDL for single compound of PBBs and PBDEs is 5 mg/kg;

MDL of Cr(VI) for Polymer and Electronic element sample is 2 mg/kg;

MDL of Cr(VI) for Leather sample is 3 mg/kg;

MDL of Cr(VI) for metal plating sample is 0.02μg/cm².

MDL of Cd, Pb, Hg for metal plating sample is 10 mg/kg.



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(c) Spot-test:

Negative = Absence of Cr(VI) coating;

(The tested sample should be further verified by boiling-water-extraction method if the spot test result cannot be confirmed.)

Boiling-water-extraction:

Negative = Absence of Cr(VI) coating;

Information on storage conditions and production date of the tested sample is unavailable and thus results of Cr(VI) represent status of the sample at the time of testing.

(3) --- = Not provided by applicant.

Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule ($w=0$) stated in ILAC-G8:09/2019.



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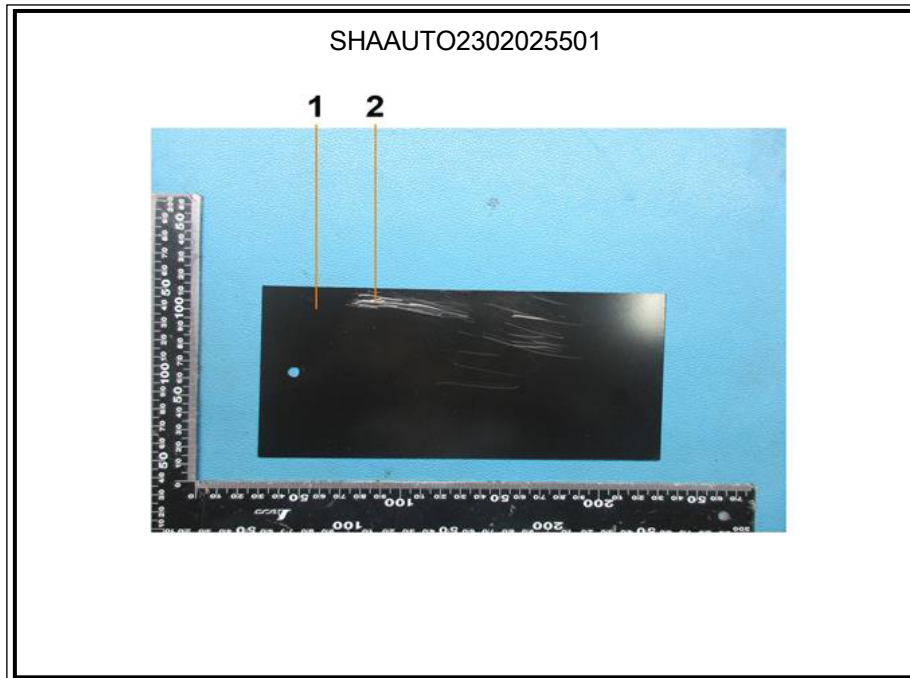
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Sample photo:



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*** End of Report ***



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