

# Test Report

No. CANAUTO1717444601

Date: 01 Sep 2017

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NANCHANG AIKA TRADING CO., LTD

NO.198 HUOJU THREE ROAD GAOXIN ZONE NANCHANG CITY JIANGXI PROVINCE

Sample Name : UPPF Paint Protection Film

SGS Job No. : WHAT1708006076NM - WH

Date of Sample Received : 01 Jun 2017

Testing Period : 01 Jun 2017 - 09 Jun 2017

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 QC/T 943-2013, QC/T 941-2013, QC/T 942-2013, QC/T 944-2013.

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

Test Results : 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 , and the test results of PBBs/PBDEs in nonmetallic material comply with GB/T 30512-2014.

Note : The test results are related only to the tested items. The report shall not be reproduced except in full without the written approval of the testing laboratory.

Signed for and on behalf of  
SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

*Jenny*

Jenny Liao  
Approved Signatory



SGS-CSTC Standards Technical Services Co., Ltd.  
Guangzhou Branch Testing Center Chemical Laboratory.

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### Test Method :

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.



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| 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        | Transparent plastic sheet |         | Pb                    | P                    | ---                                       | Comply                        | 01 Jun 2017                         |
|          |                           |         | Cd                    | P                    | ---                                       | Comply                        |                                     |
|          |                           |         | Hg                    | P                    | ---                                       | Comply                        |                                     |
|          |                           |         | Cr(VI)                | P                    | ---                                       | Comply                        |                                     |
|          |                           |         | PBBs                  | P                    | ---                                       | Comply                        |                                     |
|          |                           |         | PBDEs                 | P                    | ---                                       | 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)), 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.

(4) Results & Photos of this report refer to test report CANAUTO1710125701.



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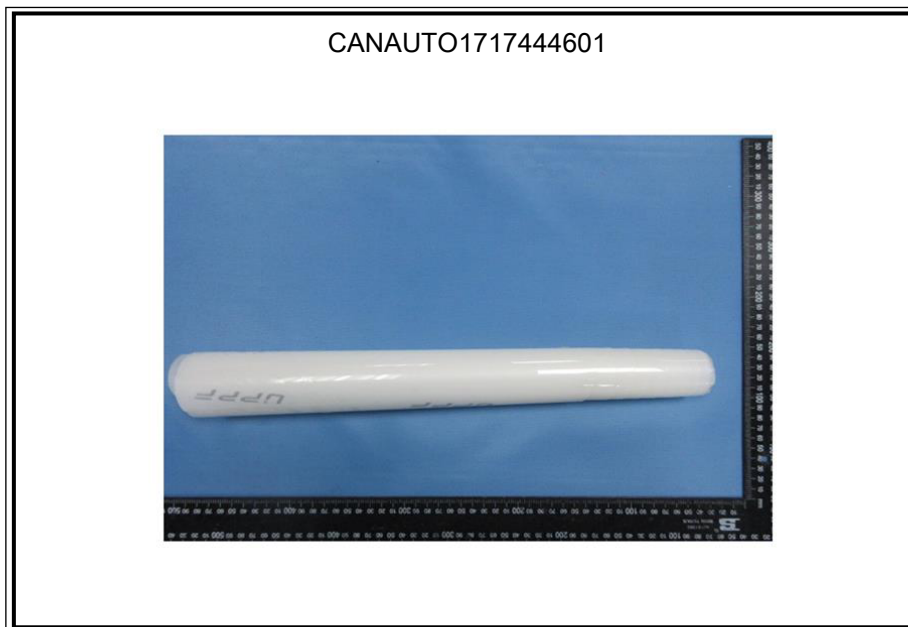
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Sample photo:



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