

# Test Report

No.: CANEC24027717503

Date: Dec 20, 2024

Page 1 of 9

Client Name: Uniroyal Electronics Industry Co., Ltd.  
 Client Address: 88 Longteng Road, Economic & Technical Development Zone, Kunshan City, Jiangsu, CHINA

Sample Name: Resistor Network-SIP(black)  
 Buyer: Uniroyal Electronics Global Co.,Ltd.  
 Supplier: Uniroyal Electronics Industry Co., Ltd.  
 Aeon Technology Corporation Co.,Ltd.  
 Royal Electronic Factory (Thailand) Co.,Ltd.  
 Royal Technology (Thailand) Co.,Ltd.  
 UNUS TECHNOLOGY CORPORATION

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

SGS Job No.: XMP24-005554  
 Sample Receiving Date: Dec 09, 2024  
 Testing Period: Dec 09, 2024 ~ Dec 16, 2024  
 Test Requested: Select test(s) as requested by the client.  
 Test Method(s): Please refer to next page(s).  
 Test Result(s): Please refer to next page(s).

| Test Requirement  | Conclusion  |
|---|-------------|
| EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU - Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP) | Pass        |
| Halogen   | See Results |

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

*Allie Chen*

Allie Chen  
 Approved Signatory

scan to see the report



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

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**Test Result(s):**

Test Part Description:

| SN ID | Sample No. | SGS Sample ID           | Description                    |
|-------|------------|-------------------------|--------------------------------|
| SN1   | A2         | CAN24-0277175-0001.C002 | Black body with beige printing |

**Remarks:**

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

**EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU - Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP)**

**Test Method:** With reference to IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013, IEC 62321-7-2:2017, IEC 62321-6:2015 and IEC 62321-8:2017, analysis was performed by ICP-OES/AAS, UV-Vis and GC-MS.

| Test Item(s)                              | Limit | Unit(s) | MDL | A2  |
|---|-------|---------|-----|-----|
| Lead (Pb)                                 | 1000  | mg/kg   | 2   | 287 |
| Mercury (Hg)                              | 1000  | mg/kg   | 2   | ND  |
| Cadmium (Cd)                              | 100   | mg/kg   | 2   | ND  |
| Hexavalent Chromium (Cr(VI))              | 1000  | mg/kg   | 8   | ND  |
| Polybromobiphenyl (PBB)                   | 1000  | mg/kg   | -   | ND  |
| Monobrominated biphenyl (MonoBB)          | -     | mg/kg   | 5   | ND  |
| Dibrominated biphenyl (DiBB)              | -     | mg/kg   | 5   | ND  |
| Tribrominated biphenyl (TriBB)            | -     | mg/kg   | 5   | ND  |
| Tetrabrominated biphenyl (TetraBB)        | -     | mg/kg   | 5   | ND  |
| Pentabrominated biphenyl (PentaBB)        | -     | mg/kg   | 5   | ND  |
| Hexabrominated biphenyl (HexaBB)          | -     | mg/kg   | 5   | ND  |
| Heptabrominated biphenyl (HeptaBB)        | -     | mg/kg   | 5   | ND  |
| Octabrominated biphenyl (OctaBB)          | -     | mg/kg   | 5   | ND  |
| Nonabrominated biphenyl (NonaBB)          | -     | mg/kg   | 5   | ND  |
| Decabrominated biphenyl (DecaBB)          | -     | mg/kg   | 5   | ND  |
| Polybromodiphenyl ether(PBDE)             | 1000  | mg/kg   | -   | ND  |
| Monobrominated diphenyl ether (MonoBDE)   | -     | mg/kg   | 5   | ND  |
| Dibrominated diphenyl ether (DiBDE)       | -     | mg/kg   | 5   | ND  |
| Tribrominated diphenyl ether (TriBDE)     | -     | mg/kg   | 5   | ND  |
| Tetrabrominated diphenyl ether (TetraBDE) | -     | mg/kg   | 5   | ND  |
| Pentabrominated diphenyl ether (PentaBDE) | -     | mg/kg   | 5   | ND  |
| Hexabrominated diphenyl ether (HexaBDE)   | -     | mg/kg   | 5   | ND  |
| Heptabrominated diphenyl ether (HeptaBDE) | -     | mg/kg   | 5   | ND  |



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# Test Report

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Date: Dec 20, 2024

Page 3 of 9

| Test Item(s)                            | Limit | Unit(s) | MDL | A2 |
|---|-------|---------|-----|----|
| Octabrominated diphenyl ether (OctaBDE) | -     | mg/kg   | 5   | ND |
| Nonabrominated diphenyl ether (NonaBDE) | -     | mg/kg   | 5   | ND |
| Decabrominated diphenyl ether (DecaBDE) | -     | mg/kg   | 5   | ND |
| Bis(2-ethylhexyl) phthalate (DEHP)      | 1000  | mg/kg   | 50  | ND |
| Butyl benzyl phthalate (BBP)            | 1000  | mg/kg   | 50  | ND |
| Dibutyl phthalate (DBP)                 | 1000  | mg/kg   | 50  | ND |
| Diisobutyl phthalate (DIBP)             | 1000  | mg/kg   | 50  | ND |

**Notes:**

- (1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.
- (2) IEC 62321 series is equivalent to EN 62321 series.
- (3) 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.

**Halogen**

**Test Method:** With reference to EN 14582:2016, analysis was performed by IC.

| Test Item(s) | Unit(s) | MDL | A2 |
|--------------|---------|-----|----|
| Fluorine(F)  | mg/kg   | 20  | ND |
| Chlorine(Cl) | mg/kg   | 50  | 63 |
| Bromine(Br)  | mg/kg   | 50  | ND |
| Iodine(I)    | mg/kg   | 50  | ND |

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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Guangzhou Branch Technical Laboratory

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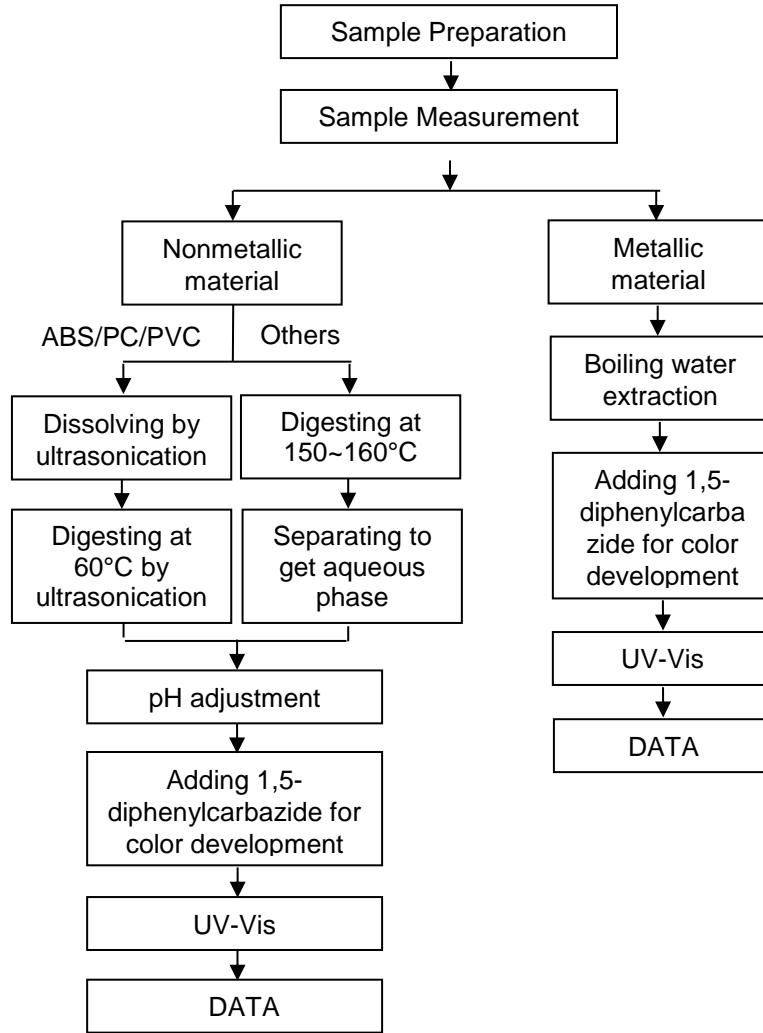
**Elements Testing Flow Chart**

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

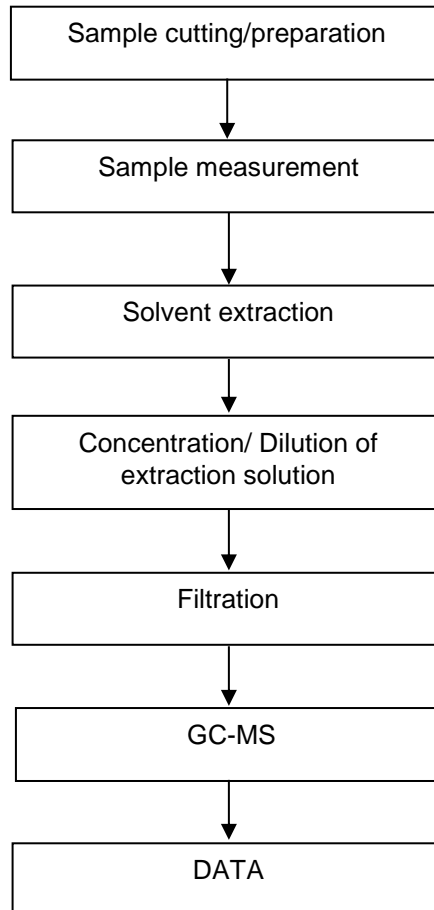


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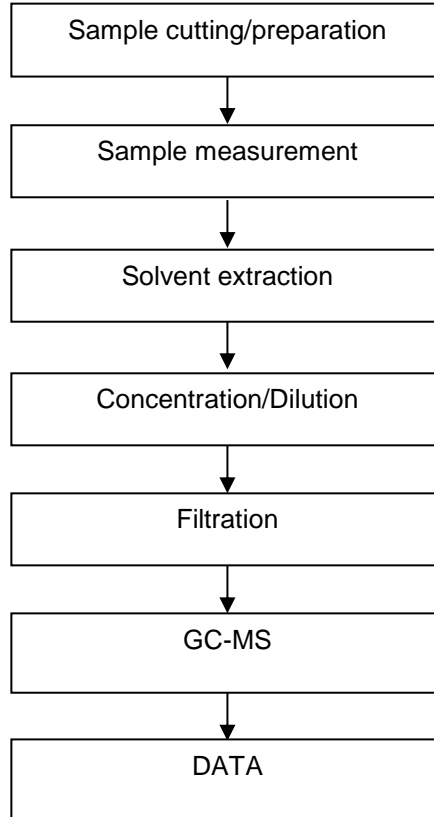
**Hexavalent Chromium (Cr(VI)) Testing Flow Chart**



### PBB/PBDE Testing Flow Chart

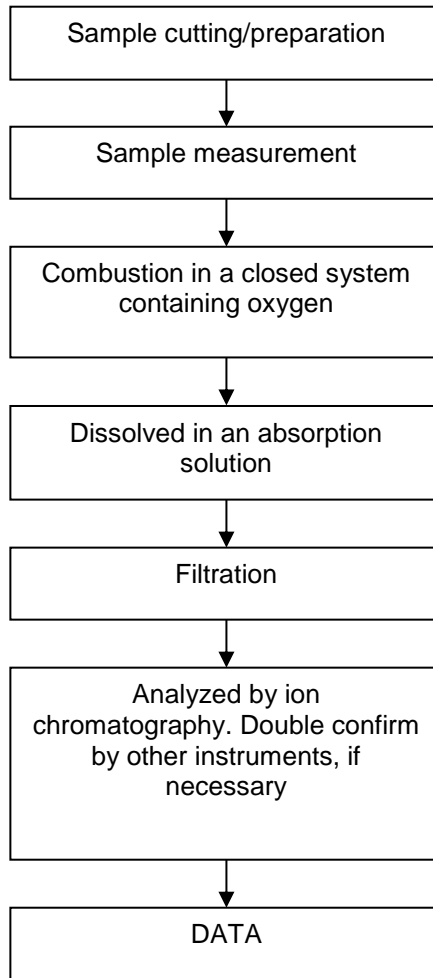


### Phthalates Testing Flow Chart



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### Halogen Testing Flow Chart



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Date: Dec 20, 2024

Page 9 of 9

### Sample Photo:



SGS authenticate the photo on original report only  
\*\*\* End of Report \*\*\*



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