

## ***RoHS COMPLIANCE***

The European Union Directive 2011/65/EC, Restriction of Hazardous Substances (RoHS 2.0) legislation restricts the use of certain substances in electrical and electronic equipment (EEE).

This directive applies to all electrical and electronic products and their components currently placed on the European market except for stated exemption categories.


On June 4, 2015, the EU Commission published new Directive (EU) 2015/863 which adds 4 phthalate substances to the list of 6 already in RoHS 2.0. These phthalates are restricted from use starting July 22, 2019 from most EEE.

All thermoelectric production produced by KIMT complies with the RoHS requirements declared in [www.rohsguide.com](http://www.rohsguide.com) and conform to the following maximum concentration limits of this directive as shown below.

- **Cadmium (Cd):** < 100 ppm
- **Lead (Pb):** < 1000 ppm
- **Mercury (Hg):** < 1000 ppm
- **Hexavalent Chromium (Cr VI):** < 1000 ppm
- **Polybrominated Biphenyls (PBB):** < 1000 ppm
- **Polybrominated Diphenyl Ethers (PBDE):** < 1000 ppm
- **Bis(2-Ethylhexyl) phthalate (DEHP):** < 1000 ppm
- **Benzyl butyl phthalate (BBP):** < 1000 ppm
- **Dibutyl phthalate (DBP):** < 1000 ppm
- **Diisobutyl phthalate (DIBP):** < 1000 ppm

RoHS compliance of thermoelectric coolers manufactured by KIMT is confirmed by the results given in test report.

KIMT will continue to monitor the developments of the RoHS legislation and actively require each supplier to ensure that our products comply with RoHS specifications.



Valeri Nichik  
General Director of KIMT LLP  
May 07, 2024



## Test Report

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KIMT LLP.

OFFICE 127, 241 MUKANOVA STR., ALMATY,  
050000, REPUBLIC OF KAZAKHSTAN

The following sample(s) was/were submitted and identified on behalf of the clients as : SEE APPENDIX 2

SGS Job No. : 5390666 - HK  
Manufacturer : KIMT LLP.  
Country of Origin : KAZAKHSTAN  
Date of Sample Received : 16 Apr 2024  
Testing Period : 16 Apr 2024 - 29 Apr 2024  
Test Requested : Selected test(s) as requested by client.  
Test Method : Please refer to next page(s).  
Test Results : Please refer to next page(s).  
Conclusion : Based on the performed tests on submitted sample(s), the results of Cadmium, Lead, Mercury, 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 Hong Kong Limited.



Lam Ka Yung, Allen  
Senior Chemist

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Test Results :

Test Part Description :

| Specimen No. | SGS Sample ID    | Description  |
|--------------|------------------|--|
| 1            | HKT24-016333.001 | Grey ceramic   |
| 2            | HKT24-016333.002 | Translucent ceramic                                      |
| 3            | HKT24-016333.003 | White ceramic  |
| 4            | HKT24-016333.004 | Grey ceramic w/ coppery metal w/ silvery/ golden plating |
| 5            | HKT24-016333.005 | Grey ceramic w/ coppery metal w/ silvery plating         |
| 6            | HKT24-016333.006 | Silvery crystal  |
| 7            | HKT24-016333.007 | Silvery crystal  |
| 8            | HKT24-016333.008 | Golden metal   |
| 9            | HKT24-016333.009 | Coppery metal w/ silvery plating                         |
| 10           | HKT24-016333.010 | Black soft plastic                                       |
| 11           | HKT24-016333.011 | Grey paste   |
| 12           | HKT24-016333.012 | Silvery metal  |
| 13           | HKT24-016333.013 | Silvery metal  |
| 14           | HKT24-016333.014 | Silvery metal  |
| 15           | HKT24-016333.015 | Silvery metal  |
| 16           | HKT24-016333.016 | Translucent plastic                                      |
| 17           | HKT24-016333.017 | Grey solid   |
| 18           | HKT24-016333.018 | Silvery crystal w/ silvery golden plating                |
| 19           | HKT24-016333.019 | Off white soft plastic                                   |
| 20           | HKT24-016333.020 | Grey paste   |
| 21           | HKT24-016333.021 | Black soft plastic                                       |
| 22           | HKT24-016333.022 | White soft plastic                                       |

Remarks :

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

**RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU**

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Test Method : With reference to IEC 62321-4:2013+A1:2017, IEC62321-5:2013, IEC62321-7-2:2017, IEC62321-6:2015 and IEC62321-8:2017, analyzed by ICP-OES, UV-Vis and GC-MS. (Decision Rule: please refer to appendix 1: Category 1)

| Test Item(s)                        | Limit | Unit  | MDL | 001 | 002 | 003 |
|-------------------------------------|-------|-------|-----|-----|-----|-----|
| Cadmium (Cd)                        | 100   | mg/kg | 2   | ND  | ND  | ND  |
| Lead (Pb)                           | 1,000 | mg/kg | 2   | ND  | ND  | ND  |
| Mercury (Hg)                        | 1,000 | mg/kg | 2   | ND  | ND  | ND  |
| Hexavalent Chromium (Cr(VI))        | 1,000 | mg/kg | 8   | ND  | ND  | ND  |
| Sum of PBBs                         | 1,000 | mg/kg | -   | ND  | ND  | ND  |
| Monobromobiphenyl                   | -     | mg/kg | 5   | ND  | ND  | ND  |
| Dibromobiphenyl                     | -     | mg/kg | 5   | ND  | ND  | ND  |
| Tribromobiphenyl                    | -     | mg/kg | 5   | ND  | ND  | ND  |
| Tetrabromobiphenyl                  | -     | mg/kg | 5   | ND  | ND  | ND  |
| Pentabromobiphenyl                  | -     | mg/kg | 5   | ND  | ND  | ND  |
| Hexabromobiphenyl                   | -     | mg/kg | 5   | ND  | ND  | ND  |
| Heptabromobiphenyl                  | -     | mg/kg | 5   | ND  | ND  | ND  |
| Octabromobiphenyl                   | -     | mg/kg | 5   | ND  | ND  | ND  |
| Nonabromobiphenyl                   | -     | mg/kg | 5   | ND  | ND  | ND  |
| Decabromobiphenyl                   | -     | mg/kg | 5   | ND  | ND  | ND  |
| Sum of PBDEs                        | 1,000 | mg/kg | -   | ND  | ND  | ND  |
| Monobromodiphenyl ether             | -     | mg/kg | 5   | ND  | ND  | ND  |
| Dibromodiphenyl ether               | -     | mg/kg | 5   | ND  | ND  | ND  |
| Tribromodiphenyl ether              | -     | mg/kg | 5   | ND  | ND  | ND  |
| Tetrabromodiphenyl ether            | -     | mg/kg | 5   | ND  | ND  | ND  |
| Pentabromodiphenyl ether            | -     | mg/kg | 5   | ND  | ND  | ND  |
| Hexabromodiphenyl ether             | -     | mg/kg | 5   | ND  | ND  | ND  |
| Heptabromodiphenyl ether            | -     | mg/kg | 5   | ND  | ND  | ND  |
| Octabromodiphenyl ether             | -     | mg/kg | 5   | ND  | ND  | ND  |
| Nonabromodiphenyl ether             | -     | mg/kg | 5   | ND  | ND  | ND  |
| Decabromodiphenyl ether             | -     | mg/kg | 5   | ND  | ND  | ND  |
| Dibutyl Phthalate (DBP)             | 1,000 | mg/kg | 50  | ND  | ND  | ND  |
| Benzylbutyl Phthalate (BBP)         | 1,000 | mg/kg | 50  | ND  | ND  | ND  |
| Bis-(2-ethylhexyl) Phthalate (DEHP) | 1,000 | mg/kg | 50  | ND  | ND  | ND  |
| Diisobutyl Phthalate (DIBP)         | 1,000 | mg/kg | 50  | ND  | ND  | ND  |

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| <u>Test Item(s)</u>                 | <u>Limit</u> | <u>Unit</u> | <u>MDL</u> | <u>004</u> | <u>005</u> | <u>006</u> |
|-------------------------------------|--------------|-------------|------------|------------|------------|------------|
| Cadmium (Cd)                        | 100          | mg/kg       | 2          | ND         | ND         | ND         |
| Lead (Pb)                           | 1,000        | mg/kg       | 2          | ND         | ND         | ND         |
| Mercury (Hg)                        | 1,000        | mg/kg       | 2          | ND         | ND         | ND         |
| Hexavalent Chromium (Cr(VI))        | 1,000        | mg/kg       | 8          | ND         | ND         | ND         |
| Sum of PBBs                         | 1,000        | mg/kg       | -          | ND         | ND         | ND         |
| Monobromobiphenyl                   | -            | mg/kg       | 5          | ND         | ND         | ND         |
| Dibromobiphenyl                     | -            | mg/kg       | 5          | ND         | ND         | ND         |
| Tribromobiphenyl                    | -            | mg/kg       | 5          | ND         | ND         | ND         |
| Tetrabromobiphenyl                  | -            | mg/kg       | 5          | ND         | ND         | ND         |
| Pentabromobiphenyl                  | -            | mg/kg       | 5          | ND         | ND         | ND         |
| Hexabromobiphenyl                   | -            | mg/kg       | 5          | ND         | ND         | ND         |
| Heptabromobiphenyl                  | -            | mg/kg       | 5          | ND         | ND         | ND         |
| Octabromobiphenyl                   | -            | mg/kg       | 5          | ND         | ND         | ND         |
| Nonabromobiphenyl                   | -            | mg/kg       | 5          | ND         | ND         | ND         |
| Decabromobiphenyl                   | -            | mg/kg       | 5          | ND         | ND         | ND         |
| Sum of PBDEs                        | 1,000        | mg/kg       | -          | ND         | ND         | ND         |
| Monobromodiphenyl ether             | -            | mg/kg       | 5          | ND         | ND         | ND         |
| Dibromodiphenyl ether               | -            | mg/kg       | 5          | ND         | ND         | ND         |
| Tribromodiphenyl ether              | -            | mg/kg       | 5          | ND         | ND         | ND         |
| Tetrabromodiphenyl ether            | -            | mg/kg       | 5          | ND         | ND         | ND         |
| Pentabromodiphenyl ether            | -            | mg/kg       | 5          | ND         | ND         | ND         |
| Hexabromodiphenyl ether             | -            | mg/kg       | 5          | ND         | ND         | ND         |
| Heptabromodiphenyl ether            | -            | mg/kg       | 5          | ND         | ND         | ND         |
| Octabromodiphenyl ether             | -            | mg/kg       | 5          | ND         | ND         | ND         |
| Nonabromodiphenyl ether             | -            | mg/kg       | 5          | ND         | ND         | ND         |
| Decabromodiphenyl ether             | -            | mg/kg       | 5          | ND         | ND         | ND         |
| Dibutyl Phthalate (DBP)             | 1,000        | mg/kg       | 50         | ND         | ND         | ND         |
| Benzylbutyl Phthalate (BBP)         | 1,000        | mg/kg       | 50         | ND         | ND         | ND         |
| Bis-(2-ethylhexyl) Phthalate (DEHP) | 1,000        | mg/kg       | 50         | ND         | ND         | ND         |
| Diisobutyl Phthalate (DIBP)         | 1,000        | mg/kg       | 50         | ND         | ND         | ND         |

| <u>Test Item(s)</u>          | <u>Limit</u> | <u>Unit</u> | <u>MDL</u> | <u>007</u> | <u>010</u> | <u>011</u> |
|------------------------------|--------------|-------------|------------|------------|------------|------------|
| Cadmium (Cd)                 | 100          | mg/kg       | 2          | ND         | ND         | ND         |
| Lead (Pb)                    | 1,000        | mg/kg       | 2          | 512        | ND         | 98         |
| Mercury (Hg)                 | 1,000        | mg/kg       | 2          | ND         | ND         | ND         |
| Hexavalent Chromium (Cr(VI)) | 1,000        | mg/kg       | 8          | ND         | ND         | ND         |
| Sum of PBBs                  | 1,000        | mg/kg       | -          | ND         | ND         | ND         |
| Monobromobiphenyl            | -            | mg/kg       | 5          | ND         | ND         | ND         |

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| <u>Test Item(s)</u>                 | <u>Limit</u> | <u>Unit</u> | <u>MDL</u> | <u>007</u> | <u>010</u> | <u>011</u> |
|-------------------------------------|--------------|-------------|------------|------------|------------|------------|
| Dibromobiphenyl                     | -            | mg/kg       | 5          | ND         | ND         | ND         |
| Tribromobiphenyl                    | -            | mg/kg       | 5          | ND         | ND         | ND         |
| Tetrabromobiphenyl                  | -            | mg/kg       | 5          | ND         | ND         | ND         |
| Pentabromobiphenyl                  | -            | mg/kg       | 5          | ND         | ND         | ND         |
| Hexabromobiphenyl                   | -            | mg/kg       | 5          | ND         | ND         | ND         |
| Heptabromobiphenyl                  | -            | mg/kg       | 5          | ND         | ND         | ND         |
| Octabromobiphenyl                   | -            | mg/kg       | 5          | ND         | ND         | ND         |
| Nonabromobiphenyl                   | -            | mg/kg       | 5          | ND         | ND         | ND         |
| Decabromobiphenyl                   | -            | mg/kg       | 5          | ND         | ND         | ND         |
| Sum of PBDEs                        | 1,000        | mg/kg       | -          | ND         | ND         | ND         |
| Monobromodiphenyl ether             | -            | mg/kg       | 5          | ND         | ND         | ND         |
| Dibromodiphenyl ether               | -            | mg/kg       | 5          | ND         | ND         | ND         |
| Tribromodiphenyl ether              | -            | mg/kg       | 5          | ND         | ND         | ND         |
| Tetrabromodiphenyl ether            | -            | mg/kg       | 5          | ND         | ND         | ND         |
| Pentabromodiphenyl ether            | -            | mg/kg       | 5          | ND         | ND         | ND         |
| Hexabromodiphenyl ether             | -            | mg/kg       | 5          | ND         | ND         | ND         |
| Heptabromodiphenyl ether            | -            | mg/kg       | 5          | ND         | ND         | ND         |
| Octabromodiphenyl ether             | -            | mg/kg       | 5          | ND         | ND         | ND         |
| Nonabromodiphenyl ether             | -            | mg/kg       | 5          | ND         | ND         | ND         |
| Decabromodiphenyl ether             | -            | mg/kg       | 5          | ND         | ND         | ND         |
| Dibutyl Phthalate (DBP)             | 1,000        | mg/kg       | 50         | ND         | ND         | ND         |
| Benzylbutyl Phthalate (BBP)         | 1,000        | mg/kg       | 50         | ND         | ND         | ND         |
| Bis-(2-ethylhexyl) Phthalate (DEHP) | 1,000        | mg/kg       | 50         | ND         | ND         | ND         |
| Diisobutyl Phthalate (DIBP)         | 1,000        | mg/kg       | 50         | ND         | ND         | ND         |

| <u>Test Item(s)</u>          | <u>Limit</u> | <u>Unit</u> | <u>MDL</u> | <u>016</u> | <u>017</u> | <u>018</u> |
|------------------------------|--------------|-------------|------------|------------|------------|------------|
| Cadmium (Cd)                 | 100          | mg/kg       | 2          | ND         | ND         | ND         |
| Lead (Pb)                    | 1,000        | mg/kg       | 2          | ND         | ND         | ND         |
| Mercury (Hg)                 | 1,000        | mg/kg       | 2          | ND         | ND         | ND         |
| Hexavalent Chromium (Cr(VI)) | 1,000        | mg/kg       | 8          | ND         | ND         | ND         |
| Sum of PBBs                  | 1,000        | mg/kg       | -          | ND         | ND         | ND         |
| Monobromobiphenyl            | -            | mg/kg       | 5          | ND         | ND         | ND         |
| Dibromobiphenyl              | -            | mg/kg       | 5          | ND         | ND         | ND         |
| Tribromobiphenyl             | -            | mg/kg       | 5          | ND         | ND         | ND         |
| Tetrabromobiphenyl           | -            | mg/kg       | 5          | ND         | ND         | ND         |
| Pentabromobiphenyl           | -            | mg/kg       | 5          | ND         | ND         | ND         |
| Hexabromobiphenyl            | -            | mg/kg       | 5          | ND         | ND         | ND         |
| Heptabromobiphenyl           | -            | mg/kg       | 5          | ND         | ND         | ND         |

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| <u>Test Item(s)</u>                 | <u>Limit</u> | <u>Unit</u> | <u>MDL</u> | <u>016</u> | <u>017</u> | <u>018</u> |
|-------------------------------------|--------------|-------------|------------|------------|------------|------------|
| Octabromobiphenyl                   | -            | mg/kg       | 5          | ND         | ND         | ND         |
| Nonabromobiphenyl                   | -            | mg/kg       | 5          | ND         | ND         | ND         |
| Decabromobiphenyl                   | -            | mg/kg       | 5          | ND         | ND         | ND         |
| Sum of PBDEs                        | 1,000        | mg/kg       | -          | ND         | ND         | ND         |
| Monobromodiphenyl ether             | -            | mg/kg       | 5          | ND         | ND         | ND         |
| Dibromodiphenyl ether               | -            | mg/kg       | 5          | ND         | ND         | ND         |
| Tribromodiphenyl ether              | -            | mg/kg       | 5          | ND         | ND         | ND         |
| Tetrabromodiphenyl ether            | -            | mg/kg       | 5          | ND         | ND         | ND         |
| Pentabromodiphenyl ether            | -            | mg/kg       | 5          | ND         | ND         | ND         |
| Hexabromodiphenyl ether             | -            | mg/kg       | 5          | ND         | ND         | ND         |
| Heptabromodiphenyl ether            | -            | mg/kg       | 5          | ND         | ND         | ND         |
| Octabromodiphenyl ether             | -            | mg/kg       | 5          | ND         | ND         | ND         |
| Nonabromodiphenyl ether             | -            | mg/kg       | 5          | ND         | ND         | ND         |
| Decabromodiphenyl ether             | -            | mg/kg       | 5          | ND         | ND         | ND         |
| Dibutyl Phthalate (DBP)             | 1,000        | mg/kg       | 50         | ND         | ND         | ND         |
| Benzylbutyl Phthalate (BBP)         | 1,000        | mg/kg       | 50         | ND         | ND         | ND         |
| Bis-(2-ethylhexyl) Phthalate (DEHP) | 1,000        | mg/kg       | 50         | ND         | ND         | ND         |
| Diisobutyl Phthalate (DIBP)         | 1,000        | mg/kg       | 50         | ND         | ND         | ND         |

| <u>Test Item(s)</u>          | <u>Limit</u> | <u>Unit</u> | <u>MDL</u> | <u>019</u> | <u>020</u> | <u>021</u> |
|------------------------------|--------------|-------------|------------|------------|------------|------------|
| Cadmium (Cd)                 | 100          | mg/kg       | 2          | ND         | ND         | ND         |
| Lead (Pb)                    | 1,000        | mg/kg       | 2          | ND         | 67         | ND         |
| Mercury (Hg)                 | 1,000        | mg/kg       | 2          | ND         | ND         | ND         |
| Hexavalent Chromium (Cr(VI)) | 1,000        | mg/kg       | 8          | ND         | ND         | ND         |
| Sum of PBBs                  | 1,000        | mg/kg       | -          | ND         | ND         | ND         |
| Monobromobiphenyl            | -            | mg/kg       | 5          | ND         | ND         | ND         |
| Dibromobiphenyl              | -            | mg/kg       | 5          | ND         | ND         | ND         |
| Tribromobiphenyl             | -            | mg/kg       | 5          | ND         | ND         | ND         |
| Tetrabromobiphenyl           | -            | mg/kg       | 5          | ND         | ND         | ND         |
| Pentabromobiphenyl           | -            | mg/kg       | 5          | ND         | ND         | ND         |
| Hexabromobiphenyl            | -            | mg/kg       | 5          | ND         | ND         | ND         |
| Heptabromobiphenyl           | -            | mg/kg       | 5          | ND         | ND         | ND         |
| Octabromobiphenyl            | -            | mg/kg       | 5          | ND         | ND         | ND         |
| Nonabromobiphenyl            | -            | mg/kg       | 5          | ND         | ND         | ND         |
| Decabromobiphenyl            | -            | mg/kg       | 5          | ND         | ND         | ND         |
| Sum of PBDEs                 | 1,000        | mg/kg       | -          | ND         | ND         | ND         |
| Monobromodiphenyl ether      | -            | mg/kg       | 5          | ND         | ND         | ND         |
| Dibromodiphenyl ether        | -            | mg/kg       | 5          | ND         | ND         | ND         |

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| <u>Test Item(s)</u>                 | <u>Limit</u> | <u>Unit</u> | <u>MDL</u> | <u>019</u> | <u>020</u> | <u>021</u> |
|-------------------------------------|--------------|-------------|------------|------------|------------|------------|
| Tribromodiphenyl ether              | -            | mg/kg       | 5          | ND         | ND         | ND         |
| Tetrabromodiphenyl ether            | -            | mg/kg       | 5          | ND         | ND         | ND         |
| Pentabromodiphenyl ether            | -            | mg/kg       | 5          | ND         | ND         | ND         |
| Hexabromodiphenyl ether             | -            | mg/kg       | 5          | ND         | ND         | ND         |
| Heptabromodiphenyl ether            | -            | mg/kg       | 5          | ND         | ND         | ND         |
| Octabromodiphenyl ether             | -            | mg/kg       | 5          | ND         | ND         | ND         |
| Nonabromodiphenyl ether             | -            | mg/kg       | 5          | ND         | ND         | ND         |
| Decabromodiphenyl ether             | -            | mg/kg       | 5          | ND         | ND         | ND         |
| Dibutyl Phthalate (DBP)             | 1,000        | mg/kg       | 50         | ND         | ND         | ND         |
| Benzylbutyl Phthalate (BBP)         | 1,000        | mg/kg       | 50         | ND         | ND         | ND         |
| Bis-(2-ethylhexyl) Phthalate (DEHP) | 1,000        | mg/kg       | 50         | ND         | ND         | ND         |
| Diisobutyl Phthalate (DIBP)         | 1,000        | mg/kg       | 50         | ND         | ND         | ND         |

| <u>Test Item(s)</u>          | <u>Limit</u> | <u>Unit</u> | <u>MDL</u> | <u>022</u> |
|------------------------------|--------------|-------------|------------|------------|
| Cadmium (Cd)                 | 100          | mg/kg       | 2          | ND         |
| Lead (Pb)                    | 1,000        | mg/kg       | 2          | ND         |
| Mercury (Hg)                 | 1,000        | mg/kg       | 2          | ND         |
| Hexavalent Chromium (Cr(VI)) | 1,000        | mg/kg       | 8          | ND         |
| Sum of PBBs                  | 1,000        | mg/kg       | -          | ND         |
| Monobromobiphenyl            | -            | mg/kg       | 5          | ND         |
| Dibromobiphenyl              | -            | mg/kg       | 5          | ND         |
| Tribromobiphenyl             | -            | mg/kg       | 5          | ND         |
| Tetrabromobiphenyl           | -            | mg/kg       | 5          | ND         |
| Pentabromobiphenyl           | -            | mg/kg       | 5          | ND         |
| Hexabromobiphenyl            | -            | mg/kg       | 5          | ND         |
| Heptabromobiphenyl           | -            | mg/kg       | 5          | ND         |
| Octabromobiphenyl            | -            | mg/kg       | 5          | ND         |
| Nonabromobiphenyl            | -            | mg/kg       | 5          | ND         |
| Decabromobiphenyl            | -            | mg/kg       | 5          | ND         |
| Sum of PBDEs                 | 1,000        | mg/kg       | -          | ND         |
| Monobromodiphenyl ether      | -            | mg/kg       | 5          | ND         |
| Dibromodiphenyl ether        | -            | mg/kg       | 5          | ND         |
| Tribromodiphenyl ether       | -            | mg/kg       | 5          | ND         |
| Tetrabromodiphenyl ether     | -            | mg/kg       | 5          | ND         |
| Pentabromodiphenyl ether     | -            | mg/kg       | 5          | ND         |
| Hexabromodiphenyl ether      | -            | mg/kg       | 5          | ND         |
| Heptabromodiphenyl ether     | -            | mg/kg       | 5          | ND         |
| Octabromodiphenyl ether      | -            | mg/kg       | 5          | ND         |

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Date: 07 May 2024

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| <u>Test Item(s)</u>                 | <u>Limit</u> | <u>Unit</u> | <u>MDL</u> | <u>022</u> |
|-------------------------------------|--------------|-------------|------------|------------|
| Nonabromodiphenyl ether             | -            | mg/kg       | 5          | ND         |
| Decabromodiphenyl ether             | -            | mg/kg       | 5          | ND         |
| Dibutyl Phthalate (DBP)             | 1,000        | mg/kg       | 50         | ND         |
| Benzylbutyl Phthalate (BBP)         | 1,000        | mg/kg       | 50         | ND         |
| Bis-(2-ethylhexyl) Phthalate (DEHP) | 1,000        | mg/kg       | 50         | ND         |
| Diisobutyl Phthalate (DIBP)         | 1,000        | mg/kg       | 50         | ND         |

### Notes :

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

[http://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101:::FSP\\_ORG\\_ID,FSP\\_LANG\\_ID:1258637,25](http://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101:::FSP_ORG_ID,FSP_LANG_ID:1258637,25)

### RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

Test Method : With reference to IEC 62321-4:2013+A1:2017, IEC62321-5:2013, IEC62321-6:2015 and IEC62321-8:2017, analyzed by ICP-OES and GC-MS. (Decision Rule: please refer to appendix 1: Category 1)

With reference to IEC62321-7-1:2015, analyzed by UV-Vis. (Decision Rule: please refer to appendix 1: Category 4)

| <u>Test Item(s)</u>           | <u>Limit</u> | <u>Unit</u>        | <u>MDL</u> | <u>008</u> | <u>009</u> | <u>012</u> |
|-------------------------------|--------------|--------------------|------------|------------|------------|------------|
| Cadmium (Cd)                  | 100          | mg/kg              | 2          | ND         | ND         | ND         |
| Lead (Pb)                     | 1,000        | mg/kg              | 5          | ND         | ND         | 49         |
| Mercury (Hg)                  | 1,000        | mg/kg              | 2          | ND         | ND         | ND         |
| Hexavalent Chromium (Cr(VI))▼ | -            | µg/cm <sup>2</sup> | 0.10       | ND         | ND         | ND         |
| Sum of PBBs                   | 1,000        | mg/kg              | -          | ND         | ND         | ND         |
| Monobromobiphenyl             | -            | mg/kg              | 5          | ND         | ND         | ND         |
| Dibromobiphenyl               | -            | mg/kg              | 5          | ND         | ND         | ND         |
| Tribromobiphenyl              | -            | mg/kg              | 5          | ND         | ND         | ND         |
| Tetrabromobiphenyl            | -            | mg/kg              | 5          | ND         | ND         | ND         |
| Pentabromobiphenyl            | -            | mg/kg              | 5          | ND         | ND         | ND         |
| Hexabromobiphenyl             | -            | mg/kg              | 5          | ND         | ND         | ND         |
| Heptabromobiphenyl            | -            | mg/kg              | 5          | ND         | ND         | ND         |
| Octabromobiphenyl             | -            | mg/kg              | 5          | ND         | ND         | ND         |
| Nonabromobiphenyl             | -            | mg/kg              | 5          | ND         | ND         | ND         |
| Decabromobiphenyl             | -            | mg/kg              | 5          | ND         | ND         | ND         |
| Sum of PBDEs                  | 1,000        | mg/kg              | -          | ND         | ND         | ND         |
| Monobromodiphenyl ether       | -            | mg/kg              | 5          | ND         | ND         | ND         |

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| <u>Test Item(s)</u>                 | <u>Limit</u> | <u>Unit</u> | <u>MDL</u> | <u>008</u> | <u>009</u> | <u>012</u> |
|-------------------------------------|--------------|-------------|------------|------------|------------|------------|
| Dibromodiphenyl ether               | -            | mg/kg       | 5          | ND         | ND         | ND         |
| Tribromodiphenyl ether              | -            | mg/kg       | 5          | ND         | ND         | ND         |
| Tetrabromodiphenyl ether            | -            | mg/kg       | 5          | ND         | ND         | ND         |
| Pentabromodiphenyl ether            | -            | mg/kg       | 5          | ND         | ND         | ND         |
| Hexabromodiphenyl ether             | -            | mg/kg       | 5          | ND         | ND         | ND         |
| Heptabromodiphenyl ether            | -            | mg/kg       | 5          | ND         | ND         | ND         |
| Octabromodiphenyl ether             | -            | mg/kg       | 5          | ND         | ND         | ND         |
| Nonabromodiphenyl ether             | -            | mg/kg       | 5          | ND         | ND         | ND         |
| Decabromodiphenyl ether             | -            | mg/kg       | 5          | ND         | ND         | ND         |
| Dibutyl Phthalate (DBP)             | 1,000        | mg/kg       | 50         | ND         | ND         | ND         |
| Benzylbutyl Phthalate (BBP)         | 1,000        | mg/kg       | 50         | ND         | ND         | ND         |
| Bis-(2-ethylhexyl) Phthalate (DEHP) | 1,000        | mg/kg       | 50         | ND         | ND         | ND         |
| Diisobutyl Phthalate (DIBP)         | 1,000        | mg/kg       | 50         | ND         | ND         | ND         |

| <u>Test Item(s)</u>           | <u>Limit</u> | <u>Unit</u>        | <u>MDL</u> | <u>013</u> | <u>014</u> | <u>015</u> |
|-------------------------------|--------------|--------------------|------------|------------|------------|------------|
| Cadmium (Cd)                  | 100          | mg/kg              | 2          | ND         | ND         | ND         |
| Lead (Pb)                     | 1,000        | mg/kg              | 5          | 135        | 69         | ND         |
| Mercury (Hg)                  | 1,000        | mg/kg              | 2          | ND         | ND         | ND         |
| Hexavalent Chromium (Cr(VI))▼ | -            | µg/cm <sup>2</sup> | 0.10       | ND         | ND         | ND         |
| Sum of PBBs                   | 1,000        | mg/kg              | -          | ND         | ND         | ND         |
| Monobromobiphenyl             | -            | mg/kg              | 5          | ND         | ND         | ND         |
| Dibromobiphenyl               | -            | mg/kg              | 5          | ND         | ND         | ND         |
| Tribromobiphenyl              | -            | mg/kg              | 5          | ND         | ND         | ND         |
| Tetrabromobiphenyl            | -            | mg/kg              | 5          | ND         | ND         | ND         |
| Pentabromobiphenyl            | -            | mg/kg              | 5          | ND         | ND         | ND         |
| Hexabromobiphenyl             | -            | mg/kg              | 5          | ND         | ND         | ND         |
| Heptabromobiphenyl            | -            | mg/kg              | 5          | ND         | ND         | ND         |
| Octabromobiphenyl             | -            | mg/kg              | 5          | ND         | ND         | ND         |
| Nonabromobiphenyl             | -            | mg/kg              | 5          | ND         | ND         | ND         |
| Decabromobiphenyl             | -            | mg/kg              | 5          | ND         | ND         | ND         |
| Sum of PBDEs                  | 1,000        | mg/kg              | -          | ND         | ND         | ND         |
| Monobromodiphenyl ether       | -            | mg/kg              | 5          | ND         | ND         | ND         |
| Dibromodiphenyl ether         | -            | mg/kg              | 5          | ND         | ND         | ND         |
| Tribromodiphenyl ether        | -            | mg/kg              | 5          | ND         | ND         | ND         |
| Tetrabromodiphenyl ether      | -            | mg/kg              | 5          | ND         | ND         | ND         |
| Pentabromodiphenyl ether      | -            | mg/kg              | 5          | ND         | ND         | ND         |
| Hexabromodiphenyl ether       | -            | mg/kg              | 5          | ND         | ND         | ND         |
| Heptabromodiphenyl ether      | -            | mg/kg              | 5          | ND         | ND         | ND         |

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| <u>Test Item(s)</u>                 | <u>Limit</u> | <u>Unit</u> | <u>MDL</u> | <u>013</u> | <u>014</u> | <u>015</u> |
|-------------------------------------|--------------|-------------|------------|------------|------------|------------|
| Octabromodiphenyl ether             | -            | mg/kg       | 5          | ND         | ND         | ND         |
| Nonabromodiphenyl ether             | -            | mg/kg       | 5          | ND         | ND         | ND         |
| Decabromodiphenyl ether             | -            | mg/kg       | 5          | ND         | ND         | ND         |
| Dibutyl Phthalate (DBP)             | 1,000        | mg/kg       | 50         | ND         | ND         | ND         |
| Benzylbutyl Phthalate (BBP)         | 1,000        | mg/kg       | 50         | ND         | ND         | ND         |
| Bis-(2-ethylhexyl) Phthalate (DEHP) | 1,000        | mg/kg       | 50         | ND         | ND         | ND         |
| Diisobutyl Phthalate (DIBP)         | 1,000        | mg/kg       | 50         | ND         | ND         | ND         |

### Notes :

(1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.

IEC 62321 series is equivalent to EN 62321 series

[http://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101:::FSP\\_ORG\\_ID,FSP\\_LANG\\_ID:1258637,25](http://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101:::FSP_ORG_ID,FSP_LANG_ID:1258637,25)

(2) ▼ = a. The sample is positive for Cr(VI) if the Cr(VI) concentration is greater than 0.13 µg/cm<sup>2</sup>. The sample coating is considered to contain Cr(VI)

b. The sample is negative for Cr(VI) if Cr(VI) is ND (concentration less than 0.10 µg/cm<sup>2</sup>). The coating is considered a non-Cr(VI) based coating

c. The result between 0.10 µg/cm<sup>2</sup> and 0.13 µg/cm<sup>2</sup> 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.

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**Appendix 1**

| Category | Decision Rule Statement   |
|----------|---|
| 1        | <p>The decision rule for conformity reporting is based on the non-binary statement with guard band (is equal to the expanded measurement uncertainty with a 95% coverage probability, <math>w = U95</math>) in ILAC-G8:09/2019 Clause 4.2.3:</p> <p>A. "Pass - the measured value is within (or below / above) the acceptance limit, where the acceptance limit is below / above to the guard band." or "Pass - The measured values were observed in tolerance at the points tested. The specific false accept risk is up to 2.5%."</p> <p>B. "Conditional Pass - The measured values were observed in tolerance at the points tested. However, a portion of the expanded measurement uncertainty intervals about one or more measured values exceeded / out of tolerance. When the measured result is close to the tolerance, the specific false accept risk is up to 50%."</p> <p>C. "Conditional Fail - One or more measured values were observed out of tolerance at the points tested. However, a portion of the expanded measurement uncertainty intervals about one or more measured values were in tolerance. When the measured result is close to the tolerance, the specific false reject risk is up to 50%."</p> <p>D. "Fail - the measured value is out of (or below / above) the tolerance limit added / subtracted to the guard band." or "Fail - One or more measured values were observed out of tolerance at the points tested". The specific false reject risk is up to 2.5%.</p> |
| 2        | <p>The decision rule for conformity reporting is based on EN 1811:2023: Reference test method for release of nickel from all post assemblies which are inserted into pierced parts of the human body and articles intended to come into direct and prolonged contact with the skin in Section 9.2 interpretation of results.</p>  |
| 3        | <p>The decision rule for conformity reporting is based on the general consideration of simple acceptance as stated in ISO/IEC Guide 98-3: "Uncertainty of measurement - Part 3: Guide to the expression of uncertainty in measurement (GUM 1995)", and more specifically for analytical measurements to the EURACHEM/CITAC Guide 2012 "Quantifying Uncertainty in Analytical Measurement".</p>  |
| 4        | <p>The decision rule for conformity reporting is according to the IEC 62321-7-1 Edition 1.0 2015-09 Section 7: Table 1 - (comparison to standard solutions and interpretation of result)</p>  |
| 5        | <p>The decision rule for conformity reporting is according to the IEC 62321-3-1 Edition 1.0 2013-06 Annex A.3 interpretation of result.</p>   |
| 6        | <p>The decision rule for conformity reporting is according to the GB/T 39560.701-2020 Section 7: Table 1 - (comparison to standard solutions and interpretation of result)</p>  |
| 7        | <p>The decision rule for conformity reporting is according to the requested specification or standard (ASTM F963-23 section 4.3.5)</p>  |
| 8        | <p>The decision rule for conformity reporting is according to the requested specification or standard (AS/NZS ISO 8124 Part 3 section 4.2)</p>  |
| 9        | <p>The decision rule for conformity reporting is according to the GB/T 39560.301-2020 Annex A.3 interpretation of result.</p>   |
| Remark   | <p>If the decision rule is not feasible to be used and the uncertainty of the result is able to be provided, the uncertainty range of the result will be shown in the report. Otherwise, only result will be shown in the report.</p>   |

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## Appendix 2

As per client's declaration, the submitted sample contains the items below. Such declaration is not verified by SGS Hong Kong Ltd

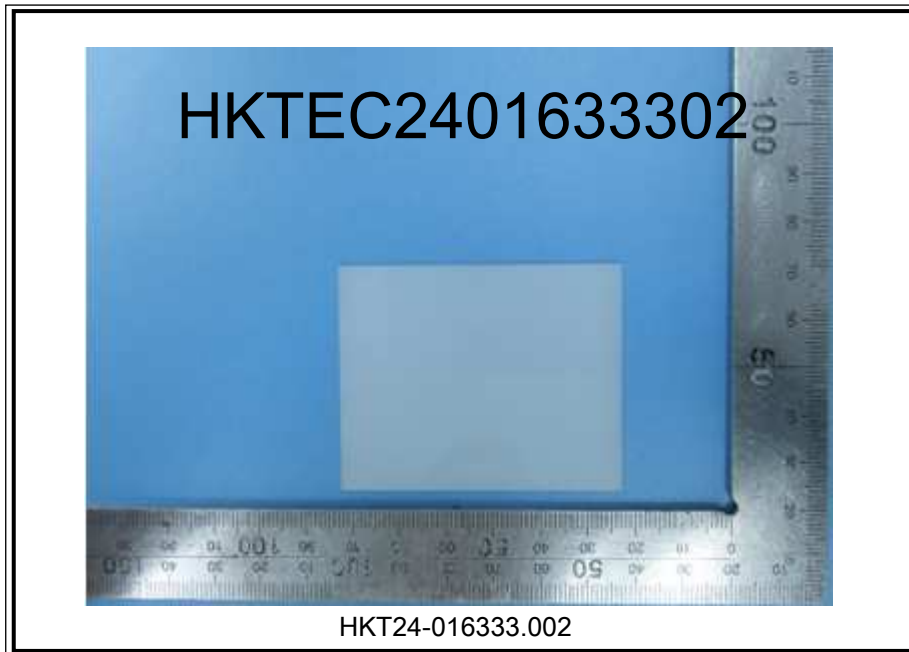
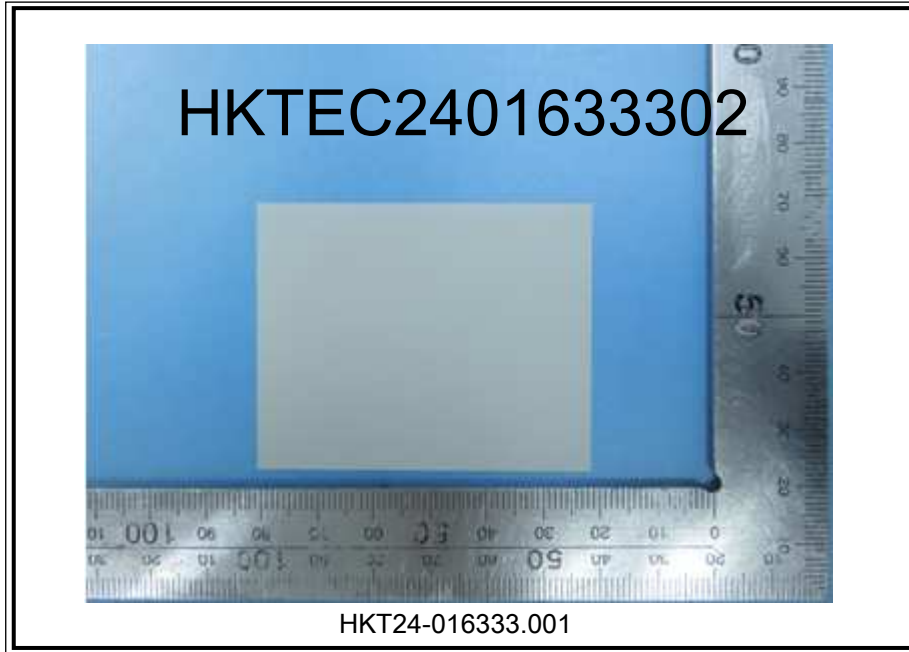
PRODUCT DESCRIPTION:

1. CERAMIC PLATES AlN (WITHOUT METALLIZATION)
2. CERAMIC PLATES Al<sub>2</sub>O<sub>3</sub> (99,7%) (WITHOUT METALLIZATION)
3. CERAMIC PLATES Al<sub>2</sub>O<sub>3</sub> (96%) (WITHOUT METALLIZATION)
4. CERAMIC PLATES AlN (WITH Ni-Au METALLIZATION) – ENIG
5. CERAMIC PLATES AlN (WITH Ni-Pd-Au METALLIZATION) – ENEPIG
6. PELLETS OF THERMOELECTRIC MATERIAL BiTeSe (N-TYPE) WITH Ni-Sn GALVANIC PLATING
7. PELLETS OF THERMOELECTRIC MATERIAL BiSbTe (P-TYPE) WITH Ni-Sn GALVANIC PLATING
8. WIRE BONDING POSTS (Cu BASE, Ni-Au PLATED)
9. SILVER-PLATED COPPER CONNECTING WIRES
10. TEFLON INSULATION
11. SOLDER PASTE Sn-99%, Sb-1% (TMELT = 230°C)
12. SOLDER Sn-99%, Sb-1% (TMELT = 230°C)
13. SOLDER PREFORM Sn-86.9%, In-10%, Ag-3.1% (TMELT = 206°C)
14. SOLDER PREFORM In-97%, Ag-3% (TMELT = 143°C)
15. SOLDER PREFORM Sn-43%, Bi-57% (TMELT = 138°C)
16. PARYLENE (POLY-PARA-XYLENE) COATING
17. EPOXY BASED ADHESIVE
18. WAFERS OF THERMOELECTRIC MATERIAL BiTeSe (N-TYPE) WITH Au-Sn (TMELT = 280°C) GALVANIC PLATING
19. SILICONE ADHESIVE SEALANT
20. SOLDER PASTE Sn-99.3%, Cu-0.7% (TMELT = 227°C)
21. SILICONE INSULATION
22. SILICONE SEALANT

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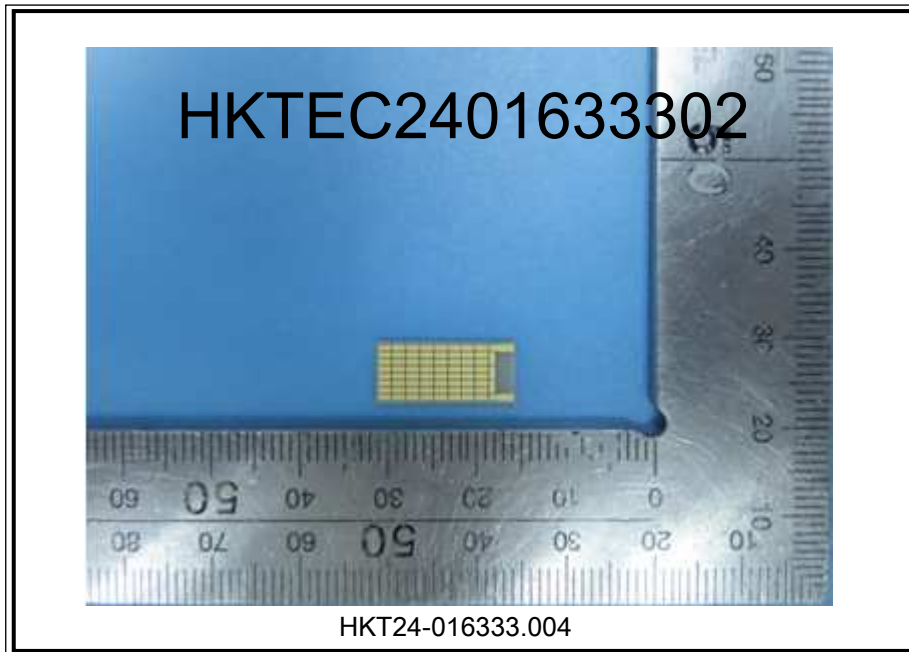
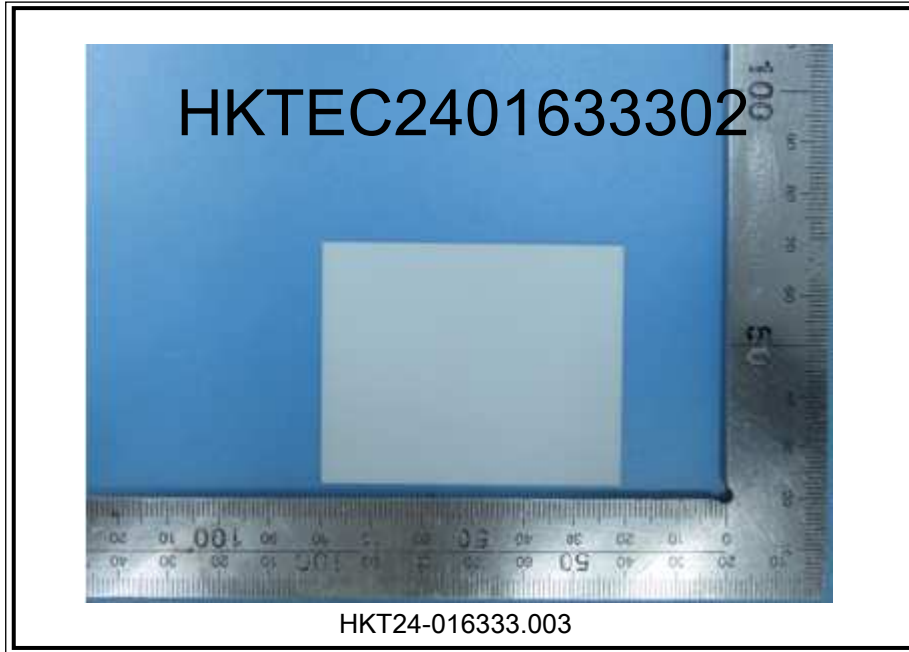
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Sample photo:



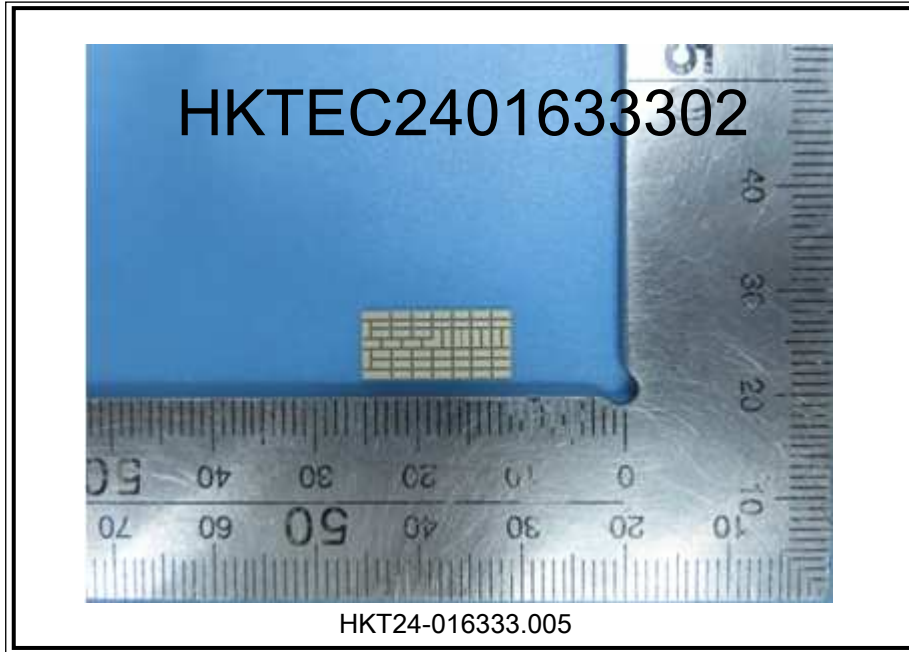
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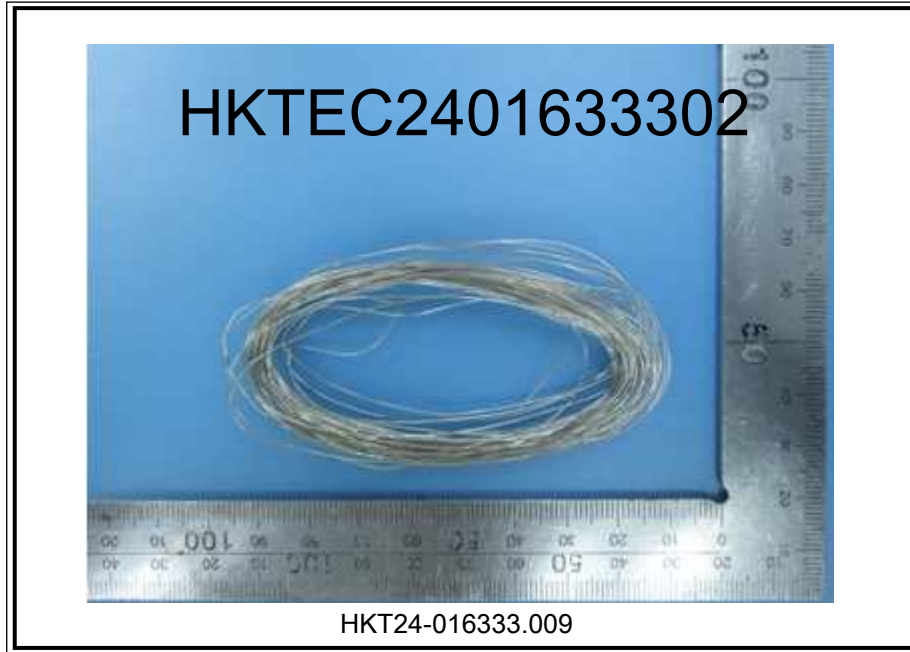
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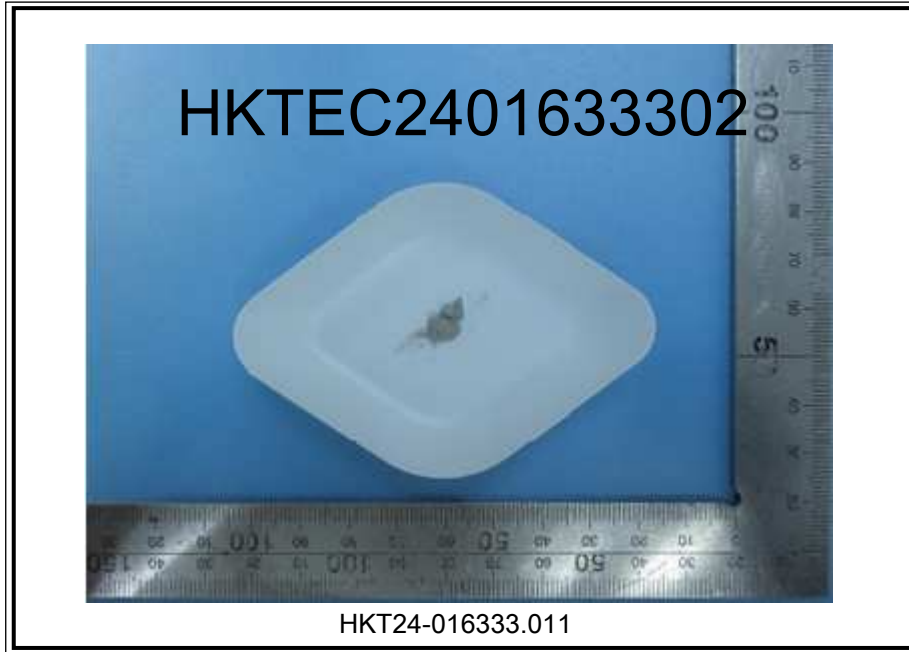
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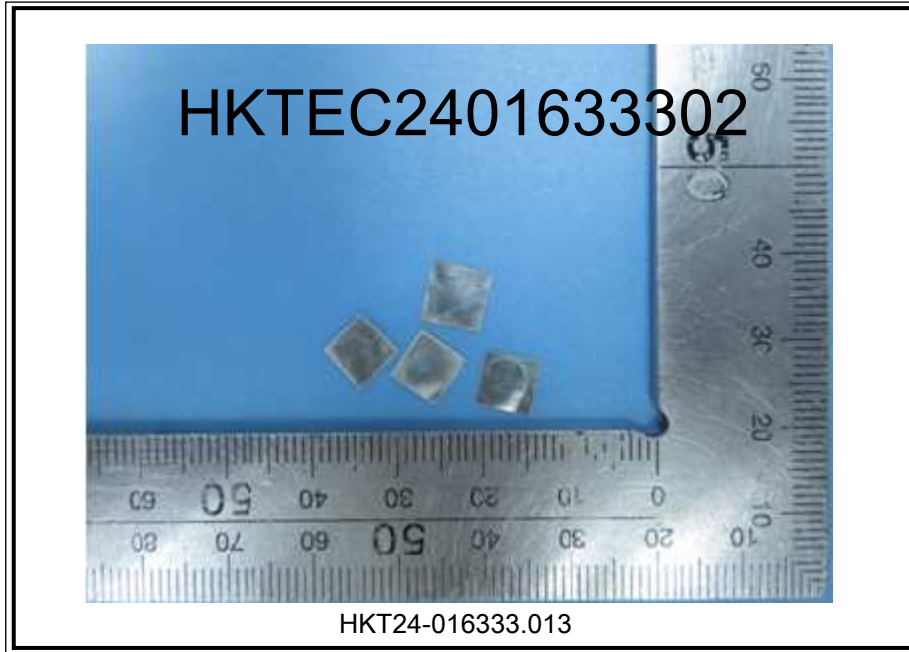
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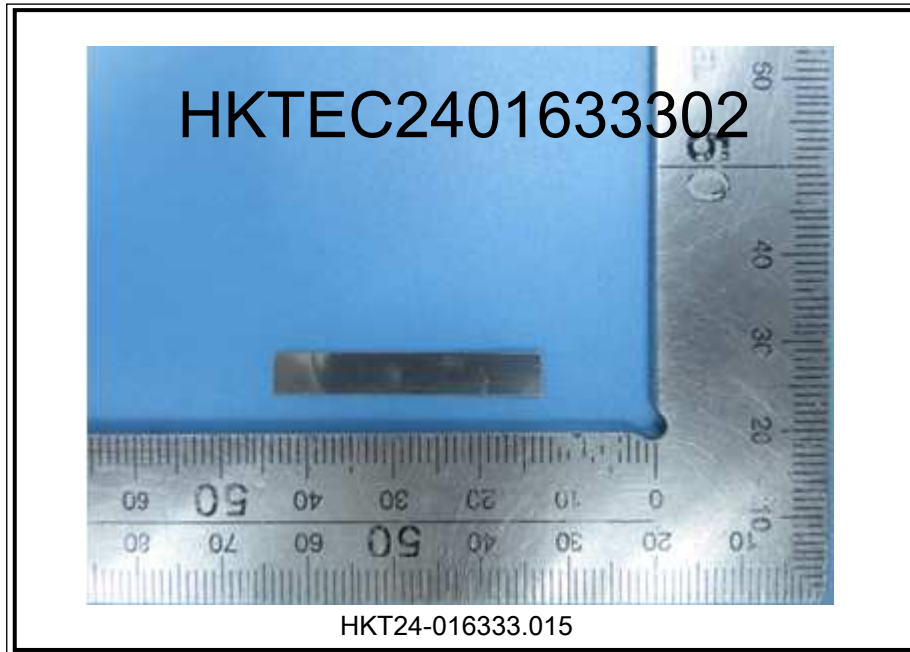
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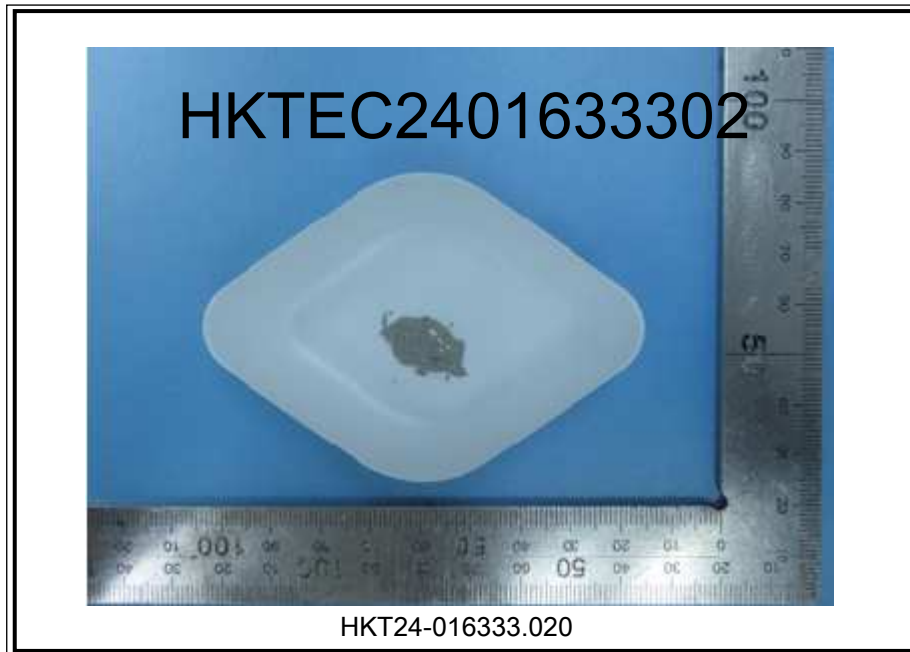
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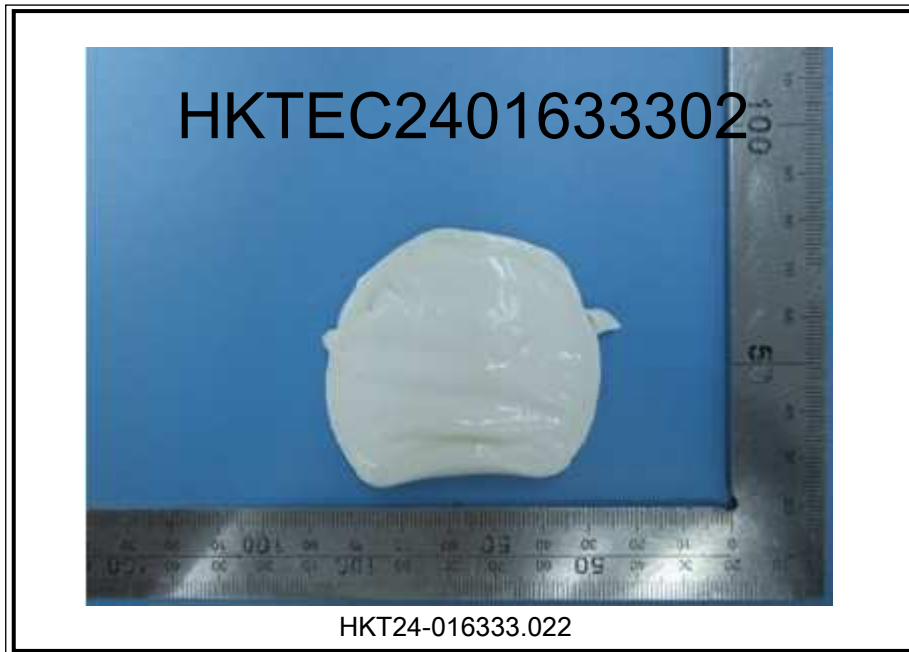
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