**MASS LABORATUVAR ve DANIŞMANLIK HİZMETLERİ A.Ş.**
Sultaniye Mah. 350 Sk. Şelale Plaza 1/110 Esenyurt / İstanbul

# TEST REPORT

| | | | |
|---|---|---|---|
| Report No / Revision No: | 21100060/00 | Release Date: | 08.10.2021 |
| Sample Acceptance Date: | 28.09.2021 | Page: | 1 / 13 |

## CUSTOMER INFORMATION

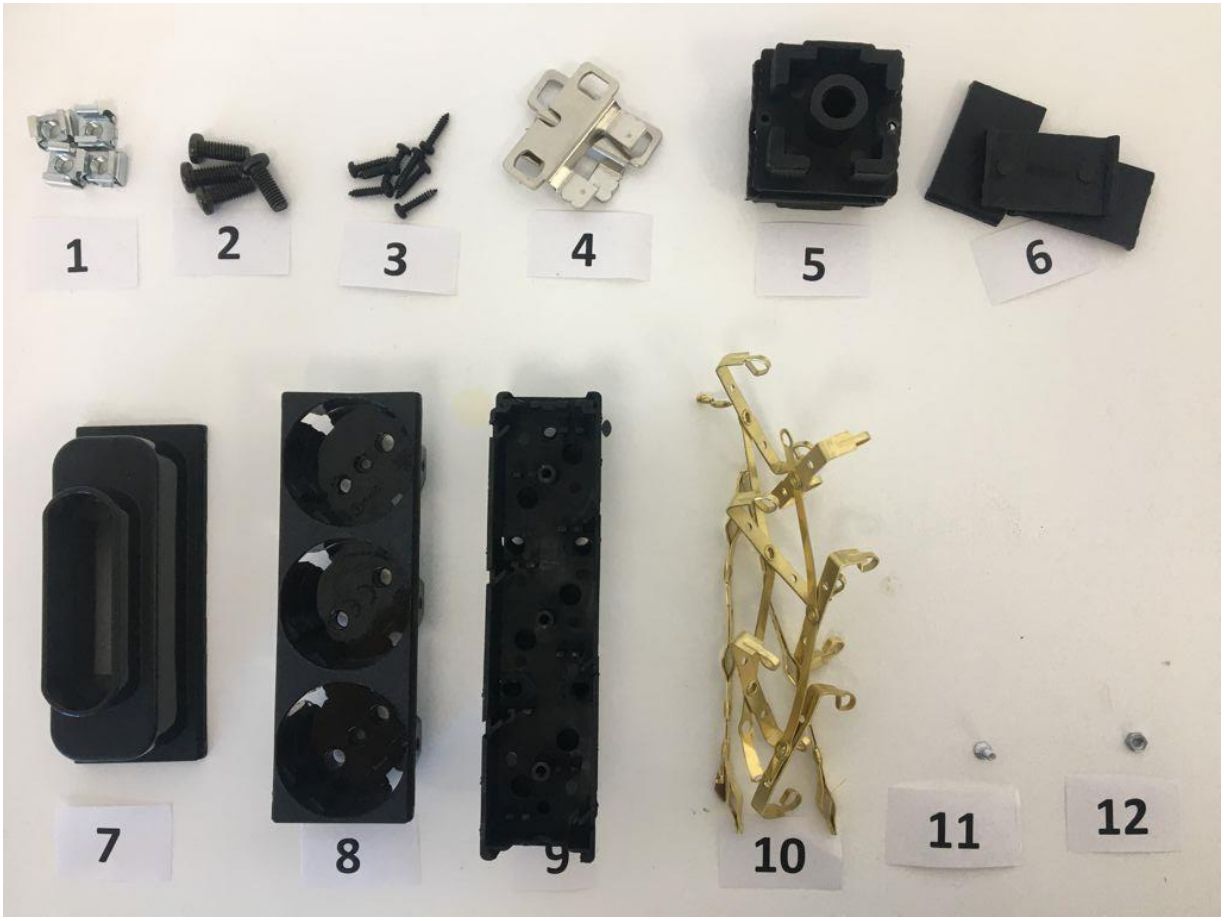
| | |
|---|---|
| Applicant: | DORAKS TEKNOLOJİK ÜRÜNLER SAN. VE TİC. LTD. ŞTİ. |
| Adress: | KÜÇÜKBAKKALKÖY MAH. OZAN VEYSEL SK. NO:9 İÇ KAPI NO:2 ATAŞEHİR / İST. |
| Related Person: | - |
| Contact: | - |

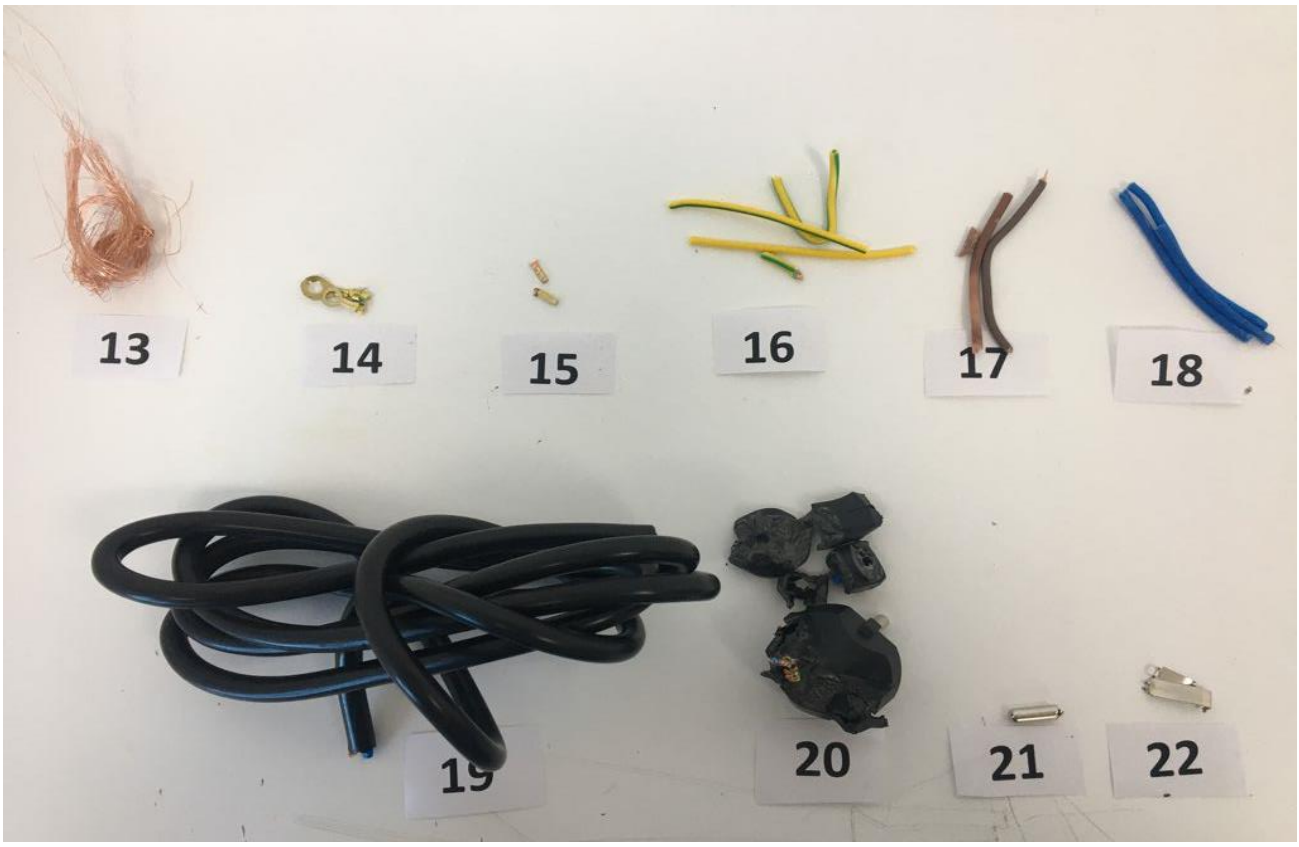
## SAMPLE INFORMATION

| | |
|---|---|
| Sample Description: | DORAX ALMAN (SCHUKO) SOKET PRİZ MODÜLÜ |
| Amount: | 1 PIECE |
| Brand: | - |
| Model No: | DR-7951 / DR-7961 |
| Explanation: | Based on the performed tests on selected part of submitted samples, RoHS Tests comply with the limits as set by Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU |
| **GENERAL EVALUATION** | **PASS** |

| Seal | Sample Acceptance and Reporter | Laboratory Manager | Date |
|---|---|---|---|
| MASS LABORATUVAR ve DANIŞMANLIK HİZMETLERİ A.Ş. MASS | Dijital olarak imzalayan TUNAHAN EKER | Dijital olarak imzalayan SELİN EKER | 08.10.2021 |

**SAMPLE PHOTO**

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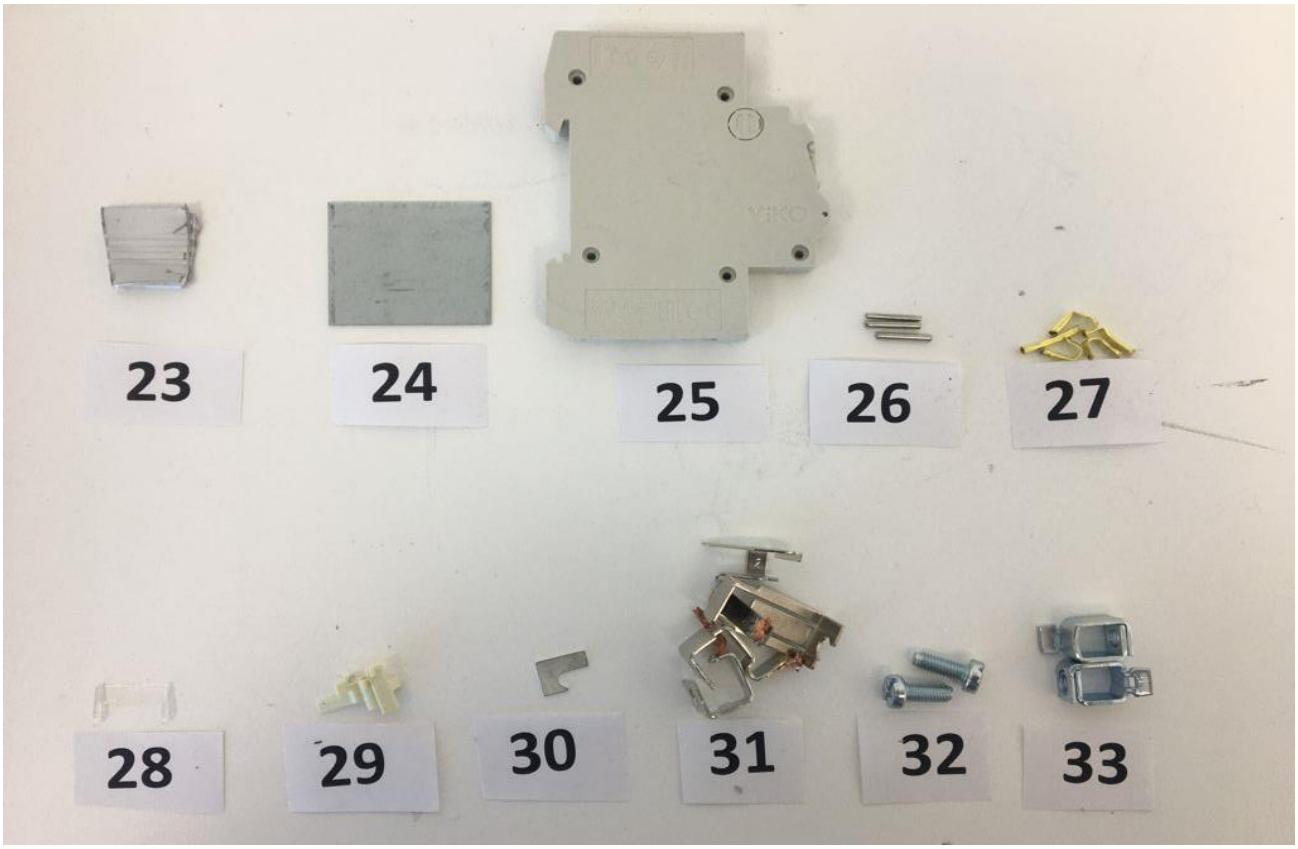
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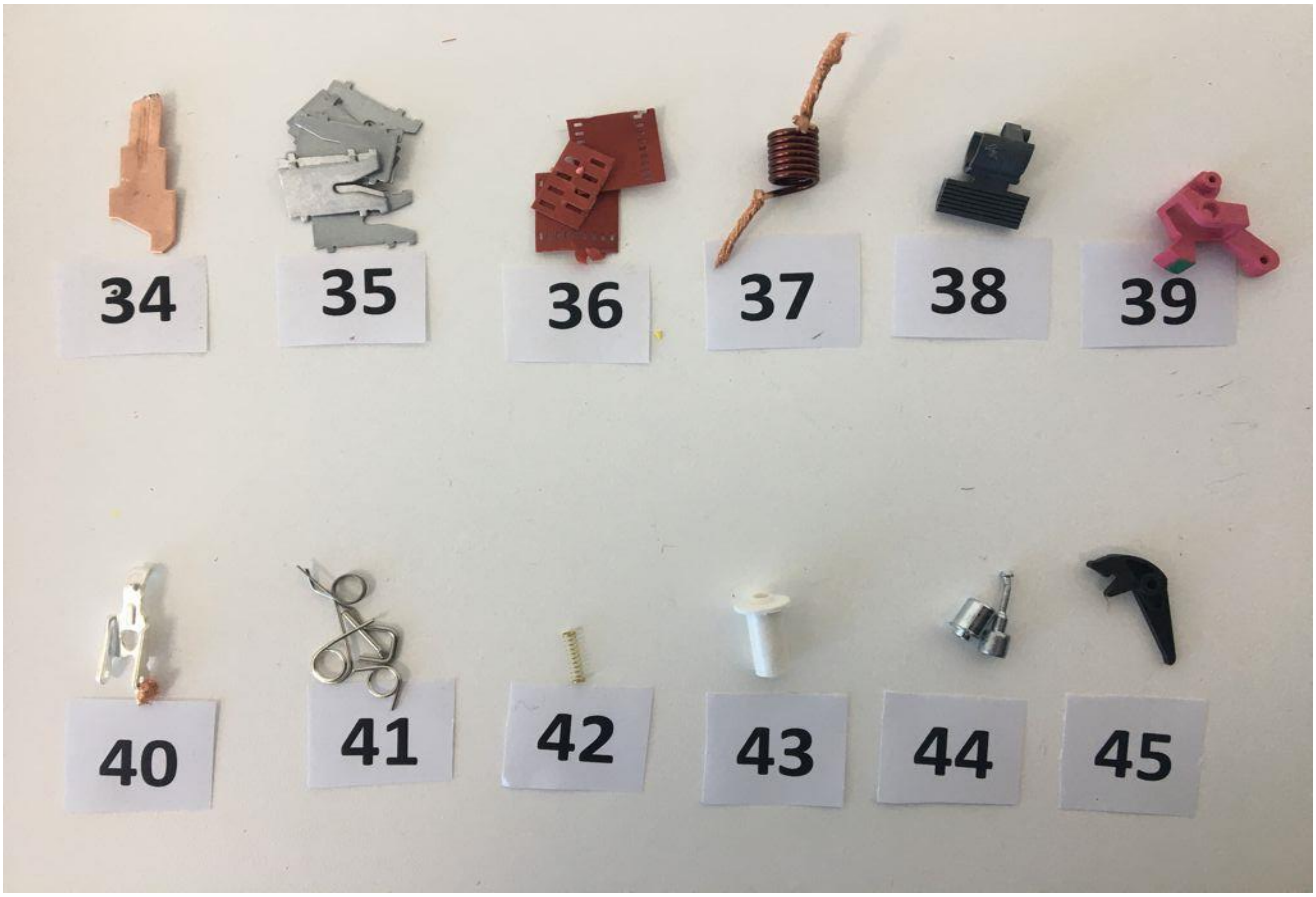


**SUMMARY TEST RESULTS**

| | ANALYSIS | METHOD | EVALUATION |
|---|---|---|---|
| | Cadmium (Cd) Content | IEC 62321-5:2013 | PASS |
| | Lead (Pb) Content | IEC 62321-5:2013 | PASS |
| | Chromium (Cr) Content | IEC 62321-5:2013 | PASS |
| | Mercury (Hg) Content | IEC 62321-4:2017 | PASS |
| | Hexavalent Chromium (CrVI) (for non metal) | IEC 62321-7-2:2017 | PASS |
| | Hexavalent Chromium (CrVI) (for metal) | IEC 62321-7-1:2015 | PASS |
| | Flame Retardants (PBBs/PBDEs) | IEC 62321-6:2015 | PASS |
| | Phthalates | IEC 62321-8:2017 | PASS |

## PRODUCT DETAILS

| PRODUCT | PART NO | PART DESCRIPTION | EXPLANATION |
|---|---|---|---|
| A | 1 | Grey metal wall mount | |
| A | 2 | Black metal wall mount screw | |
| A | 3 | Black metal socket fixing screw | |
| A | 4 | Wall fixing part on Grey metal socket | |
| A | 5 | Plastic black socket side cover | |
| A | 6 | Plastic black top protective closed cover | |
| A | 7 | Plastic black switch top protective cover | |
| A | 8 | Plastic black plug socket | |
| A | 9 | Plastic black socket bottom part | |
| A | 10 | Metal yellow conductive wire inside the socket | |
| A | 11 | Metal Grey screw (outer metal and cable connection part) | |
| A | 12 | Grey metal loaf (cable connection part with outer metal) | |
| A | 13 | Bronze metal copper wire inside of the cables | |
| A | 14 | Yellow metal round ring on cable | |
| A | 15 | Yellow metal zipped piece at the end of the cable | |
| A | 16 | Yellow, green plastic cable cover | |
| A | 17 | Brown plastic cable cover | |
| A | 18 | Blue plastic cable cover | |
| A | 19 | Black plastic cable cover | |
| A | 20 | Black plastic plug | |
| A | 21 | Grey metal on plug | |
| A | 22 | Grey metal on plug (for usp) | |
| A | 23 | Grey metal main case | |
| A | 24 | Grey metal plate under fuse | |
| A | 25 | Grey plastic fuse box | |
| A | 26 | Grey metal pin inside the fuse case | |
| A | 27 | Yellow metal pin inside fuse | |
| A | 28 | Transparent plastic on fuse | |
| A | 29 | White plastic piece inside fuse | |
| A | 30 | Grey L shape metal inside fuse | |
| A | 31 | Grey metal inside fuse | |
| A | 32 | Grey metal screw inside fuse | |
| A | 33 | Grey metal ferrule inside fuse | |
| A | 34 | Bronze copper piece inside fuse | |
| A | 35 | Grey metal foot inside fuse | |
| A | 36 | Red insulation material inside fuse | |
| A | 37 | Red metal spiral spring | |
| A | 38 | Grey plastic foot inside the fuse | |
| A | 39 | Plastic pink latch inside fuse | |
| A | 40 | Shiny white metal mechanism inside fuse | |

## PRODUCT DETAILS

| PRODUCT | PART NO | PART DESCRIPTION | EXPLANATION |
|---|---|---|---|
| A | 41 | Grey metal spring inside fuse | |
| A | 42 | Yellow metal spring inside fuse | |
| A | 43 | White plastic moving part inside fuse | |
| A | 44 | Grey metal spring piece inside fuse | |
| A | 45 | Plastic black latch inside fuse | |

## RESULTS OF SAMPLES

| **Cadmium (Cd) Content** | | | |
|---|---|---|---|
| **Test Method** | **IEC 62321-5:2013** | | |
| Test Start Date : | **28.09.2021** | Test Finish Date : | **08.10.2021** |
| **Test Parts** | **Result (mg/kg)** | **Limit (mg/kg)** | **Evaluation** |
| 1 | < 5 | 100 | PASS |
| 2 | < 5 | 100 | PASS |
| 3 | < 5 | 100 | PASS |
| 4 | < 5 | 100 | PASS |
| 5 | < 5 | 100 | PASS |
| 6 | < 5 | 100 | PASS |
| 7 | < 5 | 100 | PASS |
| 8 | < 5 | 100 | PASS |
| 9 | < 5 | 100 | PASS |
| 10 | < 5 | 100 | PASS |
| 11 | < 5 | 100 | PASS |
| 12 | < 5 | 100 | PASS |
| 13 | < 5 | 100 | PASS |
| 14 | < 5 | 100 | PASS |
| 15 | < 5 | 100 | PASS |
| 16 | < 5 | 100 | PASS |
| 17 | < 5 | 100 | PASS |
| 18 | < 5 | 100 | PASS |
| 19 | < 5 | 100 | PASS |
| 20 | < 5 | 100 | PASS |
| 21 | < 5 | 100 | PASS |
| 22 | < 5 | 100 | PASS |
| 23 | < 5 | 100 | PASS |
| 24 | < 5 | 100 | PASS |
| 25 | < 5 | 100 | PASS |
| 26 | < 5 | 100 | PASS |
| 27 | < 5 | 100 | PASS |
| 28 | < 5 | 100 | PASS |
| 29 | < 5 | 100 | PASS |
| 30 | < 5 | 100 | PASS |
| 31 | < 5 | 100 | PASS |

| Cadmium (Cd) Content | | | |
|---|---|---|---|
| **Test Method** | **IEC 62321-5:2013** | | |
| Test Start Date : | **28.09.2021** | Test Finish Date : | **08.10.2021** |
| **Test Parts** | **Result (mg/kg)** | **Limit (mg/kg)** | **Evaluation** |
| 32 | < 5 | 100 | PASS |
| 33 | < 5 | 100 | PASS |
| 34 | 37 | 100 | PASS |
| 35 | < 5 | 100 | PASS |
| 36 | < 5 | 100 | PASS |
| 37 | < 5 | 100 | PASS |
| 38 | < 5 | 100 | PASS |
| 39 | < 5 | 100 | PASS |
| 40 | < 5 | 100 | PASS |
| 41 | < 5 | 100 | PASS |
| 42 | < 5 | 100 | PASS |
| 43 | < 5 | 100 | PASS |
| 44 | < 5 | 100 | PASS |
| 45 | < 5 | 100 | PASS |

Controlled Parameters:

Report Limiting for Metal : 5,00 mg/kg
Report Limiting for Plastic : 5,00 mg/kg
Report Limiting for Seramic : 5,00 mg/kg

Limit value for cadmium 0.01 % (100 ppm)

Analysis by microwave or acid digestion and determined by ICP-MS

| Lead (Pb) Content | | | |
|---|---|---|---|
| **Test Method** | **IEC 62321-5:2013** | | |
| Test Start Date : | **28.09.2021** | Test Finish Date : | **08.10.2021** |
| **Test Parts** | **Result (mg/kg)** | **Limit (mg/kg)** | **Evaluation** |
| 1 | 34 | 1000 | PASS |
| 2 | < 10 | 1000 | PASS |
| 3 | 78 | 1000 | PASS |
| 4 | 561 | 1000 | PASS |
| 5 | < 10 | 1000 | PASS |
| 6 | < 10 | 1000 | PASS |
| 7 | < 10 | 1000 | PASS |
| 8 | < 10 | 1000 | PASS |
| 9 | < 10 | 1000 | PASS |
| 10 | 119 | 1000 | PASS |
| 11 | 152 | 1000 | PASS |
| 12 | < 10 | 1000 | PASS |

| Lead (Pb) Content | | | |
|---|---|---|---|
| **Test Method** | **IEC 62321-5:2013** | | |
| Test Start Date : | **28.09.2021** | Test Finish Date : | **08.10.2021** |
| **Test Parts** | **Result (mg/kg)** | **Limit (mg/kg)** | **Evaluation** |
| 13 | 99 | 1000 | PASS |
| 14 | 92 | 1000 | PASS |
| 15 | <81 | 1000 | PASS |
| 16 | < 10 | 1000 | PASS |
| 17 | < 10 | 1000 | PASS |
| 18 | < 10 | 1000 | PASS |
| 19 | < 10 | 1000 | PASS |
| 20 | < 10 | 1000 | PASS |
| 21 | 86 | 1000 | PASS |
| 22 | 88 | 1000 | PASS |
| 23 | 866 | 1000 | PASS |
| 24 | 72 | 1000 | PASS |
| 25 | < 10 | 1000 | PASS |
| 26 | < 10 | 1000 | PASS |
| 27 | < 10 | 1000 | PASS |
| 28 | < 10 | 1000 | PASS |
| 29 | < 10 | 1000 | PASS |
| 30 | 109 | 1000 | PASS |
| 31 | < 10 | 1000 | PASS |
| 32 | 349 | 1000 | PASS |
| 33 | 501 | 1000 | PASS |
| 34 | 689 | 1000 | PASS |
| 35 | 304 | 1000 | PASS |
| 36 | < 10 | 1000 | PASS |
| 37 | 761 | 1000 | PASS |
| 38 | < 10 | 1000 | PASS |
| 39 | < 10 | 1000 | PASS |
| 40 | < 10 | 1000 | PASS |
| 41 | < 10 | 1000 | PASS |
| 42 | < 10 | 1000 | PASS |
| 43 | < 10 | 1000 | PASS |
| 44 | 534 | 1000 | PASS |
| 45 | < 10 | 1000 | PASS |

Controlled Parameters:

Report Limiting for Metal : 10,00 mg/kg
Report Limiting for Plastic : 10,00 mg/kg
Report Limiting for Seramic : 10,00 mg/kg

Limit value for lead 0.1 % (1000 ppm)

Analysis by microwave or acid digestion and determined by ICP-MS

| **Mercury (Hg) Content** | | | |
|---|---|---|---|
| **Test Method** | **IEC 62321-4:2017** | | |
| Test Start Date : | **28.09.2021** | Test Finish Date : | **08.10.2021** |
| **Test Parts** | **Result (mg/kg)** | **Limit (mg/kg)** | **Evaluation** |
| 1 | < 10 | 1000 | PASS |
| 2 | < 10 | 1000 | PASS |
| 3 | 403 | 1000 | PASS |
| 4 | < 10 | 1000 | PASS |
| 5 | < 10 | 1000 | PASS |
| 6 | < 10 | 1000 | PASS |
| 7 | < 10 | 1000 | PASS |
| 8 | < 10 | 1000 | PASS |
| 9 | < 10 | 1000 | PASS |
| 10 | 124 | 1000 | PASS |
| 11 | < 10 | 1000 | PASS |
| 12 | < 10 | 1000 | PASS |
| 13 | < 10 | 1000 | PASS |
| 14 | < 10 | 1000 | PASS |
| 15 | < 10 | 1000 | PASS |
| 16 | < 10 | 1000 | PASS |
| 17 | < 10 | 1000 | PASS |
| 18 | < 10 | 1000 | PASS |
| 19 | < 10 | 1000 | PASS |
| 20 | < 10 | 1000 | PASS |
| 21 | < 10 | 1000 | PASS |
| 22 | < 10 | 1000 | PASS |
| 23 | < 10 | 1000 | PASS |
| 24 | 277 | 1000 | PASS |
| 25 | < 10 | 1000 | PASS |
| 26 | < 10 | 1000 | PASS |
| 27 | < 10 | 1000 | PASS |
| 28 | < 10 | 1000 | PASS |
| 29 | < 10 | 1000 | PASS |
| 30 | < 10 | 1000 | PASS |
| 31 | < 10 | 1000 | PASS |
| 32 | 241 | 1000 | PASS |
| 33 | 248 | 1000 | PASS |
| 34 | < 10 | 1000 | PASS |
| 35 | 217 | 1000 | PASS |
| 36 | < 10 | 1000 | PASS |
| 37 | < 10 | 1000 | PASS |
| 38 | < 10 | 1000 | PASS |
| 39 | < 10 | 1000 | PASS |
| 40 | < 10 | 1000 | PASS |
| 41 | < 10 | 1000 | PASS |
| 42 | < 10 | 1000 | PASS |
| 43 | < 10 | 1000 | PASS |
| 44 | 192 | 1000 | PASS |
| 45 | < 10 | 1000 | PASS |

Controlled Parameters:

Report Limiting for Metal : 10,00 mg/kg
Report Limiting for Plastic : 10,00 mg/kg
Report Limiting for Seramic : 10,00 mg/kg

Limit value for Hg 0.1 % (1000 ppm)

Analysis by microwave or acid digestion and determined by ICP-MS

| **Hexavalent Chromium (CrVI) (for non metal)** | | | |
|---|---|---|---|
| **Test Method** | **IEC 62321-7-2:2017** | | |
| Test Start Date : | **28.09.2021** | Test Finish Date : | **08.10.2021** |
| **Test Parts** | **Result (mg/kg)** | **Limit (mg/kg)** | **Evaluation** |
| 5 | < 25 | 1000 | PASS |
| 6 | < 25 | 1000 | PASS |
| 7 | < 25 | 1000 | PASS |
| 8 | < 25 | 1000 | PASS |
| 9 | < 25 | 1000 | PASS |
| 16 | < 25 | 1000 | PASS |
| 17 | < 25 | 1000 | PASS |
| 18 | < 25 | 1000 | PASS |
| 19 | < 25 | 1000 | PASS |
| 20 | < 25 | 1000 | PASS |
| 28 | < 25 | 1000 | PASS |
| 29 | < 25 | 1000 | PASS |
| 43 | < 25 | 1000 | PASS |
| 45 | < 25 | 1000 | PASS |

Controlled Parameters:

Cr+6 content

Report Limiting for Plastic : 25,00 mg/kg
Report Limiting for Seramic : 25,00 mg/kg

Limit value for Cr+6 0.1 % (1000 ppm)

Analysis with Ultraviolet–visible spectroscopy (UV-VIS spectrophotometer) device.

| Hexavalent Chromium (CrVI) (for metal) | | | |
|---|---|---|---|
| **Test Method** | **IEC 62321-7-1:2015** | | |
| Test Start Date : | **28.09.2021** | Test Finish Date : | **08.10.2021** |
| **Test Parts** | **Result (mg/kg)** | **Limit (mg/kg)** | **Evaluation** |
| 1 | < 0,10 | Stated Below | PASS |
| 2 | < 0,10 | Stated Below | PASS |
| 3 | < 0,10 | Stated Below | PASS |
| 4 | < 0,10 | Stated Below | PASS |
| 10 | < 0,10 | Stated Below | PASS |
| 11 | < 0,10 | Stated Below | PASS |
| 12 | < 0,10 | Stated Below | PASS |
| 13 | < 0,10 | Stated Below | PASS |
| 14 | < 0,10 | Stated Below | PASS |
| 15 | < 0,10 | Stated Below | PASS |
| 21 | < 0,10 | Stated Below | PASS |
| 22 | < 0,10 | Stated Below | PASS |
| 23 | < 0,10 | Stated Below | PASS |
| 24 | < 0,10 | Stated Below | PASS |
| 25 | < 0,10 | Stated Below | PASS |
| 26 | < 0,10 | Stated Below | PASS |
| 27 | < 0,10 | Stated Below | PASS |
| 30 | < 0,10 | Stated Below | PASS |
| 31 | < 0,10 | Stated Below | PASS |
| 32 | < 0,10 | Stated Below | PASS |
| 33 | < 0,10 | Stated Below | PASS |
| 34 | < 0,10 | Stated Below | PASS |
| 35 | < 0,10 | Stated Below | PASS |
| 36 | < 0,10 | Stated Below | PASS |
| 37 | < 0,10 | Stated Below | PASS |
| 38 | < 0,10 | Stated Below | PASS |
| 39 | < 0,10 | Stated Below | PASS |
| 40 | < 0,10 | Stated Below | PASS |
| 41 | < 0,10 | Stated Below | PASS |
| 42 | < 0,10 | Stated Below | PASS |

Controlled Parameters:

Cr+6 content

Report Limiting for Metal : 0.1 mg/kg with 50 $cm^2$

Limit value for Cr+6

| | |
|---|---|
| < 0.10 µg/$cm^2$ | Negative |
| ≥ 0.10 µg/$cm^2$ and ≤ 0.13 µg/$cm^2$ | Inconclusive |
| > 0.13 µg/$cm^2$ | Positive |

Analysis with Ultraviolet–visible spectroscopy (UV-VIS spectrophotometer) device.

| Flame Retardants (PBBs/PBDEs) | | | |
|---|---|---|---|
| **Test Method** | **IEC 62321-6:2015** | | |
| Test Start Date : | **28.09.2021** | Test Finish Date : | **08.10.2021** |
| **Test Parts** | **Result (mg/kg)** | **Limit (mg/kg)** | **Evaluation** |
| 5 | < 10 | 1000 | PASS |
| 6 | < 10 | 1000 | PASS |
| 7 | < 10 | 1000 | PASS |
| 8 | < 10 | 1000 | PASS |
| 9 | < 10 | 1000 | PASS |
| 16 | < 10 | 1000 | PASS |
| 17 | < 10 | 1000 | PASS |
| 18 | < 10 | 1000 | PASS |
| 19 | < 10 | 1000 | PASS |
| 20 | < 10 | 1000 | PASS |
| 28 | < 10 | 1000 | PASS |
| 29 | < 10 | 1000 | PASS |
| 43 | < 10 | 1000 | PASS |
| 45 | < 10 | 1000 | PASS |

Controlled Parameters:

Polybrominated Biphenyls (PBB)
Monobromobiphenyl (MonoBB)
Dibromobiphenyl (DiBB)
Tribromobiphenyl (TriBB)
Tetrabromobiphenyl (TetraBB)
Pentabromobiphenyl (PentaBB)
Hexabromobiphenyl (HexaBB)
Heptabromobiphenyl (HeptaBB)
Octabromobiphenyl (OctaBB)
Nonabromobiphenyl (NonaBB)
Decabromobiphenyl (DecaBB)

Polybrominated Diphenyl Ethers (PBDE)
Monobromodiphenyl Ether (MonoBDE)
Dibromodiphenyl Ether (DiBDE)
Tribromodiphenyl Ether (TriBDE)
Tetrabromodiphenyl Ether (TetraBDE)
Pentabromodiphenyl Ether (PentaBDE)
Hexabromodiphenyl Ether (HexaBDE)
Heptabromodiphenyl Ether (HeptaBDE)
Octabromodiphenyl Ether (OctaBDE)
Nonabromodiphenyl Ether (NonaBDE)
Decabromodiphenyl Ether (DecaBDE)

Report Limiting : 10 mg/kg

Limit value for total (PBBs/PBDEs) 0.1 % (1000 ppm)

Analysis with Gas Chromatography Mass Spectroscopy (GC-MS) device.

| **Phthalates** | | | |
|---|---|---|---|
| **Test Method** | **IEC 62321-8:2017** | | |
| Test Start Date : | **28.09.2021** | Test Finish Date : | **08.10.2021** |
| **Test Parts** | **Result (mg/kg)** | **Limit (mg/kg)** | **Evaluation** |
| 5 | < 50 | 1000 | PASS |
| 6 | < 50 | 1000 | PASS |
| 7 | < 50 | 1000 | PASS |
| 8 | < 50 | 1000 | PASS |
| 9 | < 50 | 1000 | PASS |
| 16 | < 50 | 1000 | PASS |
| 17 | < 50 | 1000 | PASS |
| 18 | < 50 | 1000 | PASS |
| 19 | < 50 | 1000 | PASS |
| 20 | < 50 | 1000 | PASS |
| 28 | < 50 | 1000 | PASS |
| 29 | < 50 | 1000 | PASS |
| 43 | < 50 | 1000 | PASS |
| 45 | < 50 | 1000 | PASS |

Controlled Parameters:

Report Limiting : 50 mg/kg

Controlled Parameters:

Dibutylphthalate (DBP) (CAS No : 84-74-2)
Butylbenzyl phthalate (BBP) (CAS No : 85-68-7)
Di-(2-ethylhexyl)-phtalete (DEHP) (CAS No : 117-81-7)
Di-n-octyl phthalate (DNOP) (CAS No : 117-84-0)
Di-iso-nonyl phthalate (DINP) (CAS No : 28553-12-0 /68515-48-0)
Di-isodecyl phtalate (DIDP) (CAS No : 26761-40-0/68515-49-1)

Limit value for Phthalates 0.1 % (1000 ppm)

Analysis with Gas Chromatography Mass Spectroscopy (GC-MS) device.

*** End Report ***