

Modu ApS  
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Connectivity & Products  
Non Food

Taunusstein, 20/03/2023

## Test-report no. 6253650

| Original Sample ID | Sample Description             | Sample Receipt Date |
|--------------------|--------------------------------|---------------------|
| 230235909          | material for toys (PP and ABS) | 03/03/2023          |

### General Information

|                    |   |                                   |
|--------------------|---|-----------------------------------|
| SGS-Client's ID    | : | 10214783                          |
| SGS-Customer-Order | : | 6530178                           |
| Ordering date      | : | 27/02/2023                        |
| Testing period     | : | 07/03/2023 – 17/03/2023           |
| Buyer              | : | -                                 |
| Order No.          | : | -                                 |
| Testing scope      | : | Test according to test suggestion |

### Assessment

|                                                                          |             |
|--------------------------------------------------------------------------|-------------|
| <b>Overall assessment</b>                                                | <b>pass</b> |
| The contents of all parameters tested are below their respective limits. |             |

### SGS INSTITUT FRESENIUS GmbH

*This test report was electronically created and released:*

|          | Date       | Name                   | Function                    | Department                          |
|----------|------------|------------------------|-----------------------------|-------------------------------------|
| Created  | 20.03.2023 | i.A. Alexandra Eisfeld | Customer Service Consultant | Connectivity & Products (C&P) - TJP |
| Released | 21.03.2023 | i.A. Lukas Wirth       | Customer Service Consultant | Toys and Juvenile Products          |

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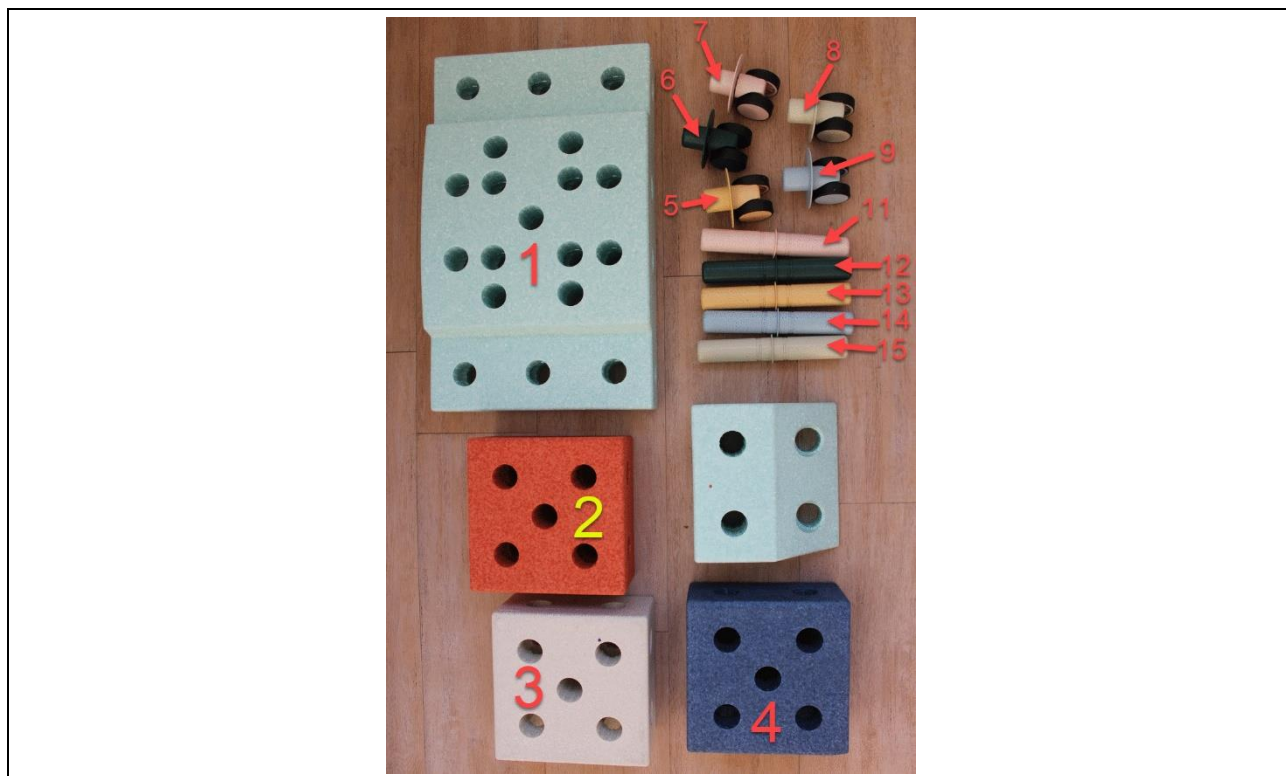
### Summary of results

| Test                                            | Result |
|-------------------------------------------------|--------|
| Lead                                            | pass   |
| Cadmium                                         | pass   |
| PAH                                             | pass   |
| Plasticizers                                    | pass   |
| Nonylphenole                                    | pass   |
| Octylphenole                                    | pass   |
| Short chain chlorinated paraffins (SCCP)        | pass   |
| Middle chained chlorparaffines (MCCP)           | pass   |
| Migration of certain elements incl. chromium VI | pass   |
| Flame retardants                                | pass   |
| Other flame retardants                          | pass   |

#### Note:

Conclusions on pass/fail are based on the test result from the actual sampling of the received sample(s). Conclusions are based on the relevant requirements; measurement uncertainties are not taken into account. Only results above the relevant detection limit are taken into account for the calculation of sums. Test was conducted on composite of random parts of the item as per client's request and the test result is the overall result. The composite sampling method is based on the client's special request and could be a modification from the testing standard. For 2-composite mix with results exceeding one half of the relevant requirements or 3-composite mix with results exceeding one third of the relevant requirements, the composite sample may have the possibility of one or more components that can lead to a failure result, it is recommended to test on individual basis.

### Photo documentation



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### List of sample parts

| Comp. no | Component-ID | Sample-Description |                |             | Original Sample ID |
|----------|--------------|--------------------|----------------|-------------|--------------------|
| 1        | 230247861    | construction part  | hard styrofoam | turquoise   | 230235909          |
| 2        | 230247862    | construction part  | hard styrofoam | orange      | 230235909          |
| 3        | 230247863    | construction part  | hard styrofoam | natural     | 230235909          |
| 4        | 230247864    | construction part  | hard styrofoam | blue        | 230235909          |
| 5        | 230247865    | wheel piece        | plastic        | yellow      | 230235909          |
| 6        | 230247866    | wheel piece        | plastic        | dark green  | 230235909          |
| 7        | 230247867    | wheel piece        | plastic        | rose        | 230235909          |
| 8        | 230247868    | wheel piece        | plastic        | natural     | 230235909          |
| 9        | 230247869    | wheel piece        | plastic        | light green | 230235909          |
| 10       | 230247870    | wheel              | plastic        | black       | 230235909          |
| 11       | 230247871    | stick              | plastic        | rose        | 230235909          |
| 12       | 230247872    | stick              | plastic        | dark green  | 230235909          |
| 13       | 230247873    | stick              | plastic        | yellow      | 230235909          |
| 14       | 230247874    | stick              | plastic        | light blue  | 230235909          |
| 15       | 230247875    | stick              | plastic        | natural     | 230235909          |

### Analytical results

#### Lead

##### Test Method

SOP M 1631 2011-09, analysis was conducted with ICP-OES after digestion

| <u>Subsample(s)</u> | <u>Unit</u> | <u>Result</u><br><u>1+2+3</u> | <u>Result</u><br><u>4+5+6</u> | <u>Result</u><br><u>7+8+9</u> |
|---------------------|-------------|-------------------------------|-------------------------------|-------------------------------|
| Lead (Pb)           | mg/kg       | < 10                          | < 10                          | < 10                          |
| Conclusion          |             | Pass                          | Pass                          | Pass                          |

| <u>Subsample(s)</u> | <u>Unit</u> | <u>Result</u><br><u>10+11+12</u> | <u>Result</u><br><u>13+14+15</u> |
|---------------------|-------------|----------------------------------|----------------------------------|
| Lead (Pb)           | mg/kg       | < 10                             | < 10                             |
| Conclusion          |             | Pass                             | Pass                             |

#### Note:

If the content of lead in the material exceeds 0.05% by weight, which can be mouthed by children, it is required to carry out the lead release for a final assessment (Regulation (EU) 2015/628).

**Requirement:** < 0.05% (< 500 mg/kg) (Regulation (EC) No. 1907/2006)

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### Cadmium

#### Test Method

SOP M 1631 2011-09, analysis was conducted with ICP-OES after digestion

| <u>Subsample(s)</u> | <u>Unit</u> | <u>Result</u><br><u>1+2+3</u> | <u>Result</u><br><u>4+5+6</u> | <u>Result</u><br><u>7+8+9</u> |
|---------------------|-------------|-------------------------------|-------------------------------|-------------------------------|
| Cadmium (Cd)        | mg/kg       | < 1.0                         | < 1.0                         | < 1.0                         |
| Conclusion          |             | Pass                          | Pass                          | Pass                          |

| <u>Subsample(s)</u> | <u>Unit</u> | <u>Result</u><br><u>10+11+12</u> | <u>Result</u><br><u>13+14+15</u> |
|---------------------|-------------|----------------------------------|----------------------------------|
| Cadmium (Cd)        | mg/kg       | < 1.0                            | < 1.0                            |
| Conclusion          |             | Pass                             | Pass                             |

Note:

**Requirement:** max.100 mg/kg (Regulation (EC) No 1907/2006)

### PAH

#### Test Method

AfPS GS 2019-01, PAK-with use of GC-MS

category 1

| <u>Subsample(s)</u>                            | <u>Unit</u> | <u>Result</u><br><u>1</u> | <u>Result</u><br><u>2</u> | <u>Result</u><br><u>4</u> |
|------------------------------------------------|-------------|---------------------------|---------------------------|---------------------------|
| Benzo[a]anthracene (56-55-3) <sup>[1]</sup>    | mg/kg       | < 0.2                     | < 0.2                     | < 0.2                     |
| Chrysene (218-01-9) <sup>[1]</sup>             | mg/kg       | < 0.2                     | < 0.2                     | < 0.2                     |
| Benzo[e]pyrene (192-97-2) <sup>[1]</sup>       | mg/kg       | < 0.2                     | < 0.2                     | < 0.2                     |
| Benzo[b]fluoranthene (205-99-2) <sup>[1]</sup> | mg/kg       | < 0.2                     | < 0.2                     | < 0.2                     |
| Benzo[k]fluoranthene (207-08-9) <sup>[1]</sup> | mg/kg       | < 0.2                     | < 0.2                     | < 0.2                     |
| Benzo[j]fluoranthene (205-82-3) <sup>[1]</sup> | mg/kg       | < 0.2                     | < 0.2                     | < 0.2                     |
| Benzo[a]pyrene (50-32-8) <sup>[1]</sup>        | mg/kg       | < 0.2                     | < 0.2                     | < 0.2                     |
| Dibenzo[ah]anthracene (53-70-3) <sup>[1]</sup> | mg/kg       | < 0.2                     | < 0.2                     | < 0.2                     |
| Conclusion EU-PAHs                             |             | Pass                      | Pass                      | Pass                      |
| Phenanthrene (85-01-8)                         | mg/kg       | < 0.2                     | < 0.2                     | < 0.2                     |
| Anthracene (120-12-7)                          | mg/kg       | < 0.2                     | < 0.2                     | < 0.2                     |
| Fluoranthene (206-44-0)                        | mg/kg       | < 0.2                     | < 0.2                     | < 0.2                     |
| Pyrene (129-00-0)                              | mg/kg       | < 0.2                     | < 0.2                     | < 0.2                     |
| Total 4 PAH <sup>[2]</sup>                     | mg/kg       | -                         | -                         | -                         |
| Conclusion Total 4 PAH                         |             | Pass                      | Pass                      | Pass                      |
| Naphthalene (91-20-3)                          | mg/kg       | < 0.2                     | < 0.2                     | < 0.2                     |
| Benzo[ghi]perylene (191-24-2)                  | mg/kg       | < 0.2                     | < 0.2                     | < 0.2                     |
| Indeno[1,2,3-cd]pyrene (193-39-5)              | mg/kg       | < 0.2                     | < 0.2                     | < 0.2                     |
| Total 15 PAH <sup>[2]</sup>                    | mg/kg       | -                         | -                         | -                         |
| Conclusion Total 15 PAH                        |             | Pass                      | Pass                      | Pass                      |
| Conclusion single substances acc. to AfPS      |             | Pass                      | Pass                      | Pass                      |

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| <u>Subsample(s)</u>                            | <u>Unit</u> | <u>Result</u><br><u>6</u> | <u>Result</u><br><u>9</u> | <u>Result</u><br><u>10</u> |
|------------------------------------------------|-------------|---------------------------|---------------------------|----------------------------|
| Benzo[a]anthracene (56-55-3) <sup>[1]</sup>    | mg/kg       | < 0.2                     | < 0.2                     | < 0.2                      |
| Chrysene (218-01-9) <sup>[1]</sup>             | mg/kg       | < 0.2                     | < 0.2                     | < 0.2                      |
| Benzo[e]pyrene (192-97-2) <sup>[1]</sup>       | mg/kg       | < 0.2                     | < 0.2                     | < 0.2                      |
| Benzo[b]fluoranthene (205-99-2) <sup>[1]</sup> | mg/kg       | < 0.2                     | < 0.2                     | < 0.2                      |
| Benzo[k]fluoranthene (207-08-9) <sup>[1]</sup> | mg/kg       | < 0.2                     | < 0.2                     | < 0.2                      |
| Benzo[j]fluoranthene (205-82-3) <sup>[1]</sup> | mg/kg       | < 0.2                     | < 0.2                     | < 0.2                      |
| Benzo[a]pyrene (50-32-8) <sup>[1]</sup>        | mg/kg       | < 0.2                     | < 0.2                     | < 0.2                      |
| Dibenzo[ah]anthracene (53-70-3) <sup>[1]</sup> | mg/kg       | < 0.2                     | < 0.2                     | < 0.2                      |
| Conclusion EU-PAHs                             |             | Pass                      | Pass                      | Pass                       |
| Phenanthrene (85-01-8)                         | mg/kg       | < 0.2                     | < 0.2                     | < 0.2                      |
| Anthracene (120-12-7)                          | mg/kg       | < 0.2                     | < 0.2                     | < 0.2                      |
| Fluoranthene (206-44-0)                        | mg/kg       | < 0.2                     | < 0.2                     | < 0.2                      |
| Pyrene (129-00-0)                              | mg/kg       | < 0.2                     | < 0.2                     | < 0.2                      |
| Total 4 PAH <sup>[2]</sup>                     | mg/kg       | -                         | -                         | -                          |
| Conclusion Total 4 PAH                         |             | Pass                      | Pass                      | Pass                       |
| Naphthalene (91-20-3)                          | mg/kg       | < 0.2                     | < 0.2                     | < 0.2                      |
| Benzo[ghi]perylene (191-24-2)                  | mg/kg       | < 0.2                     | < 0.2                     | < 0.2                      |
| Indeno[1,2,3-cd]pyrene (193-39-5)              | mg/kg       | < 0.2                     | < 0.2                     | < 0.2                      |
| Total 15 PAH <sup>[2]</sup>                    | mg/kg       | -                         | -                         | -                          |
| Conclusion Total 15 PAH                        |             | Pass                      | Pass                      | Pass                       |
| Conclusion single substances acc. to AfPS      |             | Pass                      | Pass                      | Pass                       |

| <u>Subsample(s)</u>                            | <u>Unit</u> | <u>Result</u><br><u>12</u> | <u>Result</u><br><u>15</u> |
|------------------------------------------------|-------------|----------------------------|----------------------------|
| Benzo[a]anthracene (56-55-3) <sup>[1]</sup>    | mg/kg       | < 0.2                      | < 0.2                      |
| Chrysene (218-01-9) <sup>[1]</sup>             | mg/kg       | < 0.2                      | < 0.2                      |
| Benzo[e]pyrene (192-97-2) <sup>[1]</sup>       | mg/kg       | < 0.2                      | < 0.2                      |
| Benzo[b]fluoranthene (205-99-2) <sup>[1]</sup> | mg/kg       | < 0.2                      | < 0.2                      |
| Benzo[k]fluoranthene (207-08-9) <sup>[1]</sup> | mg/kg       | < 0.2                      | < 0.2                      |
| Benzo[j]fluoranthene (205-82-3) <sup>[1]</sup> | mg/kg       | < 0.2                      | < 0.2                      |
| Benzo[a]pyrene (50-32-8) <sup>[1]</sup>        | mg/kg       | < 0.2                      | < 0.2                      |
| Dibenzo[ah]anthracene (53-70-3) <sup>[1]</sup> | mg/kg       | < 0.2                      | < 0.2                      |
| Conclusion EU-PAHs                             |             | Pass                       | Pass                       |
| Phenanthrene (85-01-8)                         | mg/kg       | < 0.2                      | < 0.2                      |
| Anthracene (120-12-7)                          | mg/kg       | < 0.2                      | < 0.2                      |
| Fluoranthene (206-44-0)                        | mg/kg       | < 0.2                      | < 0.2                      |
| Pyrene (129-00-0)                              | mg/kg       | < 0.2                      | < 0.2                      |
| Total 4 PAH <sup>[2]</sup>                     | mg/kg       | -                          | -                          |
| Conclusion Total 4 PAH                         |             | Pass                       | Pass                       |
| Naphthalene (91-20-3)                          | mg/kg       | < 0.2                      | < 0.2                      |
| Benzo[ghi]perylene (191-24-2)                  | mg/kg       | < 0.2                      | < 0.2                      |
| Indeno[1,2,3-cd]pyrene (193-39-5)              | mg/kg       | < 0.2                      | < 0.2                      |
| Total 15 PAH <sup>[2]</sup>                    | mg/kg       | -                          | -                          |
| Conclusion Total 15 PAH                        |             | Pass                       | Pass                       |
| Conclusion single substances acc. to AfPS      |             | Pass                       | Pass                       |

Note:

**Requirement:** Limits acc. to Regulation (EG) No. 1907/2006 effective from December 27, 2015:  
all [1] marked substances: < 0.5 mg/kg

<sup>[1]</sup> PAH according to the Commission Regulation (EU) No 1272/2013 amending Annex XVII to Regulation (EC) No 1907/2006 effective from December 27, 2015

<sup>[2]</sup> For the summation only results above the reporting limit are taken into account.

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**Requirements:** Limits acc. to AfPS GS 2019:01 PAK (for GS mark certification)

### Category 1:

Materials intended to be placed in the mouth, or materials in toys according to Directive 2009/48/EC or materials in articles for the use by children up to 3 years of age coming into long-term contact with skin (more than 30s) during the intended use

Sum 15 PAH: < 1 mg/kg

Phenanthrene, Anthracene, Fluoranthene, Pyrene: Sum < 1 mg/kg

Naphthalene: < 1 mg/kg

Benzo[ghi]perylene, Indeno[1,2,3-cd]pyrene, Benzo[a]anthracene, Chrysene, Benzo[e]pyrene,

Benzo[b]fluoranthene, Benzo[k]fluoranthene, Benzo[j]fluoranthene, Benzo[a]pyrene,

Dibenzo[ah]anthracene: each: < 0,2 mg/kg

## Plasticizers

### Test Method

SOP M 889 2015-01, with use of GC-MS after extraction with toluene

| <u>Subsample(s)</u>                           | <u>Unit</u> | <u>Result</u><br><u>1+11</u> | <u>Result</u><br><u>7+10</u> |
|-----------------------------------------------|-------------|------------------------------|------------------------------|
| Dibutyl phthalate (DBP) (84-74-2)             | mg/kg       | < 100                        | < 100                        |
| Benzyl butyl phthalate (BBP) (85-68-7)        | mg/kg       | < 100                        | < 100                        |
| Bis(2-ethylhexyl) phthalate (DEHP) (117-81-7) | mg/kg       | < 100                        | < 100                        |
| Diisononyl phthalate (DINP) (28553-12-0)      | mg/kg       | < 100                        | < 100                        |
| Di-n-octyl phthalate (DNOP) (117-84-0)        | mg/kg       | < 100                        | < 100                        |
| Diisodecyl phthalate (DIDP) (26761-40-0)      | mg/kg       | < 100                        | < 100                        |
| Diisobutyl phthalate (DIBP) (84-69-5)         | mg/kg       | < 100                        | < 100                        |
| Total (DBP+BBP+DEHP+DIBP) <sup>[1]</sup>      | mg/kg       | -                            | -                            |
| Total (DINP+DNOP+DIDP) <sup>[1]</sup>         | mg/kg       | -                            | -                            |
| Conclusion                                    |             | Pass                         | Pass                         |

Note:

**Requirement:** Under the REACH regulation some of the substances listed above are part of the ECHA candidate list of Substances of Very High Concern (SVHC) or Annex XIV, respectively.

For further information please refer to [http://echa.europa.eu/chem\\_data/candidate\\_list\\_table\\_en.asp](http://echa.europa.eu/chem_data/candidate_list_table_en.asp).

For toys, childcare articles and articles of daily use/products (Regulation (EC) No. 1907/2006, Annex XVII, Number 51 and REGS (EU) 2018/2005): Sum (DBP + BBP + DEHP + DIBP): < 0.1 %

For toys and childcare articles which can be placed in the mouth by children (Regulation (EC) No. 1907/2006, Annex XVII, Number 52): Sum (DINP + DNOP + DIDP): < 0.1 %

<sup>[1]</sup> For the summation only results above the reporting limit are taken into account.

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**Nonylphenole****Test Method**

SOP M 0889 2015-01, with use of GC-MS after extraction with toluene

| <b><u>Subsample(s)</u></b>      | <b><u>Unit</u></b> | <b><u>Result</u></b><br><b><u>1+11</u></b> | <b><u>Result</u></b><br><b><u>7+10</u></b> |
|---------------------------------|--------------------|--------------------------------------------|--------------------------------------------|
| 4-nonylphenols (84852-15-3)     | mg/kg              | < 30                                       | < 30                                       |
| 4-n-nonylphenol (NP) (104-40-5) | mg/kg              | < 30                                       | < 30                                       |
| Conclusion                      |                    | Pass                                       | Pass                                       |

Note:

**Requirement:** < 1000 mg/kg (Regulation (EC) No. 1907/2006, Annex XVII)

**Octylphenole****Test Method**

SOP M 0889 2015-01, with use of GC-MS after extraction with toluene

| <b><u>Subsample(s)</u></b>       | <b><u>Unit</u></b> | <b><u>Result</u></b><br><b><u>1+11</u></b> | <b><u>Result</u></b><br><b><u>7+10</u></b> |
|----------------------------------|--------------------|--------------------------------------------|--------------------------------------------|
| 4-n-octylphenol (OP) (1806-26-4) | mg/kg              | < 30                                       | < 30                                       |
| Conclusion                       |                    | Pass                                       | Pass                                       |

Note:

**Requirement:** no legal limit (recommended < 1000 mg/kg)

**Short chain chlorinated paraffins (SCCP)****Test Method**

DIN EN ISO 22818:2021-06, with use of GC-NCI-MS after extraction with toluene

| <b><u>Subsample(s)</u></b>               | <b><u>Unit</u></b> | <b><u>Result</u></b><br><b><u>1+11</u></b> | <b><u>Result</u></b><br><b><u>7+10</u></b> |
|------------------------------------------|--------------------|--------------------------------------------|--------------------------------------------|
| Short chain chlorinated paraffins (SCCP) | mg/kg              | < 50                                       | < 50                                       |
| Conclusion                               |                    | Pass                                       | Pass                                       |

Note:

**Requirement:** < 1500 mg/kg in articles (Regulation (EU) 2019/1021)

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### Middle chained chlorparaffines (MCCP)

#### Test Method

DIN EN ISO 22818:2021-06, with use of GC-NCI-MS after extraction with toluene

| <u>Subsample(s)</u>                       | <u>Unit</u> | <u>Result</u><br><u>1+11</u> | <u>Result</u><br><u>7+10</u> |
|-------------------------------------------|-------------|------------------------------|------------------------------|
| Medium chain chlorinated paraffins (MCCP) | mg/kg       | < 50                         | < 50                         |
| Conclusion                                |             | Pass                         | Pass                         |

Note:

**Requirement:** No legal limit (recommended < 1000 mg/kg)  
**Requirement:** < 1000 mg/kg according to ECHA candidate list for SVHC compounds in context with Regulation (EG) Nr. 1907/2006 (REACH) art. 59 paragraph 10.

### Migration of certain elements incl. chromium VI

#### Test Method

EN 71-3:2019+A1:2021, Analysis conducted by Inductively Coupled Argon Plasma Spectrometry (metals); Measurement by ion chromatography with post-column-derivatization with diphenylcarbazid (Cr VI)

| <u>Subsample(s)</u>   | <u>Unit</u> | <u>Result</u><br><u>1</u> | <u>Result</u><br><u>2</u> | <u>Result</u><br><u>3</u> |
|-----------------------|-------------|---------------------------|---------------------------|---------------------------|
| Aluminum (Al)         | mg/kg       | < 10                      | < 10                      | < 10                      |
| Antimony (Sb)         | mg/kg       | < 10                      | < 10                      | < 10                      |
| Arsenic (As)          | mg/kg       | < 1.0                     | < 1.0                     | < 1.0                     |
| Boron (B)             | mg/kg       | < 10                      | < 10                      | < 10                      |
| Barium (Ba)           | mg/kg       | < 10                      | < 10                      | < 10                      |
| Cadmium (Cd)          | mg/kg       | < 1.0                     | < 1.0                     | < 1.0                     |
| Cobalt (Co)           | mg/kg       | < 10                      | < 10                      | < 10                      |
| Chromium III (Cr III) | mg/kg       | < 0.200                   | < 0.200                   | < 0.200                   |
| Chromium VI (CrVI)    | mg/kg       | < 0.020                   | < 0.020                   | < 0.020                   |
| Copper (Cu)           | mg/kg       | < 10                      | < 10                      | < 10                      |
| Manganese (Mn)        | mg/kg       | < 10                      | < 10                      | < 10                      |
| Nickel (Ni)           | mg/kg       | < 10                      | < 10                      | < 10                      |
| Lead (Pb)             | mg/kg       | < 10                      | < 10                      | < 10                      |
| Selenium (Se)         | mg/kg       | < 10                      | < 10                      | < 10                      |
| Tin (Sn)              | mg/kg       | < 1.0                     | < 1.0                     | < 1.0                     |
| Strontium (Sr)        | mg/kg       | < 10                      | < 10                      | < 10                      |
| Zinc (Zn)             | mg/kg       | < 10                      | < 10                      | < 10                      |
| Mercury (Hg)          | mg/kg       | < 1.0                     | < 1.0                     | < 1.0                     |
| Conclusion            |             | Pass                      | Pass                      | Pass                      |

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| <u>Subsample(s)</u>   | <u>Unit</u> | <u>Result</u><br><u>4</u> | <u>Result</u><br><u>5</u> | <u>Result</u><br><u>6</u> |
|-----------------------|-------------|---------------------------|---------------------------|---------------------------|
| Aluminum (Al)         | mg/kg       | < 10                      | < 10                      | < 10                      |
| Antimony (Sb)         | mg/kg       | < 10                      | < 10                      | < 10                      |
| Arsenic (As)          | mg/kg       | < 1.0                     | < 1.0                     | < 1.0                     |
| Boron (B)             | mg/kg       | < 10                      | < 10                      | < 10                      |
| Barium (Ba)           | mg/kg       | < 10                      | < 10                      | < 10                      |
| Cadmium (Cd)          | mg/kg       | < 1.0                     | < 1.0                     | < 1.0                     |
| Cobalt (Co)           | mg/kg       | < 10                      | < 10                      | < 10                      |
| Chromium III (Cr III) | mg/kg       | < 0.200                   | < 0.200                   | < 0.200                   |
| Chromium VI (CrVI)    | mg/kg       | < 0.020                   | < 0.020                   | < 0.020                   |
| Copper (Cu)           | mg/kg       | < 10                      | < 10                      | < 10                      |
| Manganese (Mn)        | mg/kg       | < 10                      | < 10                      | < 10                      |
| Nickel (Ni)           | mg/kg       | < 10                      | < 10                      | < 10                      |
| Lead (Pb)             | mg/kg       | < 10                      | < 10                      | < 10                      |
| Selenium (Se)         | mg/kg       | < 10                      | < 10                      | < 10                      |
| Tin (Sn)              | mg/kg       | < 1.0                     | < 1.0                     | < 1.0                     |
| Strontium (Sr)        | mg/kg       | < 10                      | < 10                      | < 10                      |
| Zinc (Zn)             | mg/kg       | < 10                      | < 10                      | < 10                      |
| Mercury (Hg)          | mg/kg       | < 1.0                     | < 1.0                     | < 1.0                     |
| Conclusion            |             | Pass                      | Pass                      | Pass                      |

| <u>Subsample(s)</u>   | <u>Unit</u> | <u>Result</u><br><u>7</u> | <u>Result</u><br><u>8</u> | <u>Result</u><br><u>9</u> |
|-----------------------|-------------|---------------------------|---------------------------|---------------------------|
| Aluminum (Al)         | mg/kg       | < 10                      | < 10                      | < 10                      |
| Antimony (Sb)         | mg/kg       | < 10                      | < 10                      | < 10                      |
| Arsenic (As)          | mg/kg       | < 1.0                     | < 1.0                     | < 1.0                     |
| Boron (B)             | mg/kg       | < 10                      | < 10                      | < 10                      |
| Barium (Ba)           | mg/kg       | < 10                      | < 10                      | < 10                      |
| Cadmium (Cd)          | mg/kg       | < 1.0                     | < 1.0                     | < 1.0                     |
| Cobalt (Co)           | mg/kg       | < 10                      | < 10                      | < 10                      |
| Chromium III (Cr III) | mg/kg       | < 0.200                   | < 0.200                   | < 0.200                   |
| Chromium VI (CrVI)    | mg/kg       | < 0.020                   | < 0.020                   | < 0.020                   |
| Copper (Cu)           | mg/kg       | < 10                      | < 10                      | < 10                      |
| Manganese (Mn)        | mg/kg       | < 10                      | < 10                      | < 10                      |
| Nickel (Ni)           | mg/kg       | < 10                      | < 10                      | < 10                      |
| Lead (Pb)             | mg/kg       | < 10                      | < 10                      | < 10                      |
| Selenium (Se)         | mg/kg       | < 10                      | < 10                      | < 10                      |
| Tin (Sn)              | mg/kg       | < 1.0                     | < 1.0                     | < 1.0                     |
| Strontium (Sr)        | mg/kg       | < 10                      | < 10                      | < 10                      |
| Zinc (Zn)             | mg/kg       | < 10                      | < 10                      | < 10                      |
| Mercury (Hg)          | mg/kg       | < 1.0                     | < 1.0                     | < 1.0                     |
| Conclusion            |             | Pass                      | Pass                      | Pass                      |

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| <u>Subsample(s)</u>   | <u>Unit</u> | <u>Result</u><br><u>10</u> | <u>Result</u><br><u>11</u> | <u>Result</u><br><u>12</u> |
|-----------------------|-------------|----------------------------|----------------------------|----------------------------|
| Aluminum (Al)         | mg/kg       | < 10                       | < 10                       | < 10                       |
| Antimony (Sb)         | mg/kg       | < 10                       | < 10                       | < 10                       |
| Arsenic (As)          | mg/kg       | < 1.0                      | < 1.0                      | < 1.0                      |
| Boron (B)             | mg/kg       | < 10                       | < 10                       | < 10                       |
| Barium (Ba)           | mg/kg       | < 10                       | < 10                       | < 10                       |
| Cadmium (Cd)          | mg/kg       | < 1.0                      | < 1.0                      | < 1.0                      |
| Cobalt (Co)           | mg/kg       | < 10                       | < 10                       | < 10                       |
| Chromium III (Cr III) | mg/kg       | < 0.200                    | < 0.200                    | < 0.200                    |
| Chromium VI (CrVI)    | mg/kg       | < 0.020                    | < 0.020                    | < 0.020                    |
| Copper (Cu)           | mg/kg       | < 10                       | < 10                       | < 10                       |
| Manganese (Mn)        | mg/kg       | < 10                       | < 10                       | < 10                       |
| Nickel (Ni)           | mg/kg       | < 10                       | < 10                       | < 10                       |
| Lead (Pb)             | mg/kg       | < 10                       | < 10                       | < 10                       |
| Selenium (Se)         | mg/kg       | < 10                       | < 10                       | < 10                       |
| Tin (Sn)              | mg/kg       | < 1.0                      | < 1.0                      | < 1.0                      |
| Strontium (Sr)        | mg/kg       | < 10                       | < 10                       | < 10                       |
| Zinc (Zn)             | mg/kg       | < 10                       | < 10                       | < 10                       |
| Mercury (Hg)          | mg/kg       | < 1.0                      | < 1.0                      | < 1.0                      |
| Conclusion            |             | Pass                       | Pass                       | Pass                       |

| <u>Subsample(s)</u>   | <u>Unit</u> | <u>Result</u><br><u>13</u> | <u>Result</u><br><u>14</u> | <u>Result</u><br><u>15</u> |
|-----------------------|-------------|----------------------------|----------------------------|----------------------------|
| Aluminum (Al)         | mg/kg       | < 10                       | < 10                       | < 10                       |
| Antimony (Sb)         | mg/kg       | < 10                       | < 10                       | < 10                       |
| Arsenic (As)          | mg/kg       | < 1.0                      | < 1.0                      | < 1.0                      |
| Boron (B)             | mg/kg       | < 10                       | < 10                       | < 10                       |
| Barium (Ba)           | mg/kg       | < 10                       | < 10                       | < 10                       |
| Cadmium (Cd)          | mg/kg       | < 1.0                      | < 1.0                      | < 1.0                      |
| Cobalt (Co)           | mg/kg       | < 10                       | < 10                       | < 10                       |
| Chromium III (Cr III) | mg/kg       | < 0.200                    | < 0.200                    | < 0.200                    |
| Chromium VI (CrVI)    | mg/kg       | < 0.020                    | < 0.020                    | < 0.020                    |
| Copper (Cu)           | mg/kg       | < 10                       | < 10                       | < 10                       |
| Manganese (Mn)        | mg/kg       | < 10                       | < 10                       | < 10                       |
| Nickel (Ni)           | mg/kg       | < 10                       | < 10                       | < 10                       |
| Lead (Pb)             | mg/kg       | < 10                       | < 10                       | < 10                       |
| Selenium (Se)         | mg/kg       | < 10                       | < 10                       | < 10                       |
| Tin (Sn)              | mg/kg       | < 1.0                      | < 1.0                      | < 1.0                      |
| Strontium (Sr)        | mg/kg       | < 10                       | < 10                       | < 10                       |
| Zinc (Zn)             | mg/kg       | < 10                       | < 10                       | < 10                       |
| Mercury (Hg)          | mg/kg       | < 1.0                      | < 1.0                      | < 1.0                      |
| Conclusion            |             | Pass                       | Pass                       | Pass                       |

Note:

**Requirement:** Limits according to EN 71-3:2019+A1:2021

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| parameter            | unit  | limit<br>category 3 |
|----------------------|-------|---------------------|
| Aluminium (Al)       | mg/kg | 28130               |
| Antimony (Sb)        | mg/kg | 560                 |
| Arsenic (As)         | mg/kg | 47                  |
| Boron (B)            | mg/kg | 15000               |
| Barium (Ba)          | mg/kg | 18750               |
| Cadmium (Cd)         | mg/kg | 17                  |
| Cobalt (Co)          | mg/kg | 130                 |
| Chromium III (CrIII) | mg/kg | 460                 |
| Chromium VI (CrVI)   | mg/kg | 0.053               |
| Copper (Cu)          | mg/kg | 7700                |
| Manganese (Mn)       | mg/kg | 15000               |
| Nickel (Ni)          | mg/kg | 930                 |
| Lead                 | mg/kg | 23                  |
| Selenium (Se)        | mg/kg | 460                 |
| Tin (Sn)             | mg/kg | 180000              |
| organo tin           | mg/kg | 12                  |
| Strontium (Sr)       | mg/kg | 56000               |
| Zinc (Zn)            | mg/kg | 46000               |
| Mercury (Hg)         | mg/kg | 94                  |

## Flame retardants

### Test Method

SOP M 888 2019-08, Analysis was conducted with GC-MS after extraction with Toluene

| Subsample(s)             | Unit  | Result<br>1 | Result<br>8 | Result<br>10 |
|--------------------------|-------|-------------|-------------|--------------|
| Bromodiphenyl ether      | mg/kg | < 10        | < 10        | < 10         |
| Dibromodiphenyl ether    | mg/kg | < 10        | < 10        | < 10         |
| Tribromodiphenyl ether   | mg/kg | < 10        | < 10        | < 10         |
| Tetrabromodiphenyl ether | mg/kg | < 10        | < 10        | < 10         |
| Pentabromodiphenyl ether | mg/kg | < 10        | < 10        | < 10         |
| Hexabromodiphenyl ether  | mg/kg | < 10        | < 10        | < 10         |
| Heptabromodiphenyl ether | mg/kg | < 10        | < 10        | < 10         |
| Octabromodiphenyl ether  | mg/kg | < 10        | < 10        | < 10         |
| Nonabromodiphenyl ether  | mg/kg | < 10        | < 10        | < 10         |
| Decabromodiphenyl ether  | mg/kg | < 10        | < 10        | < 10         |
| Total PBDE               | mg/kg | -           | -           | -            |
| Bromobiphenyl            | mg/kg | < 10        | < 10        | < 10         |
| Dibromobiphenyl          | mg/kg | < 10        | < 10        | < 10         |
| Tribromobiphenyl         | mg/kg | < 10        | < 10        | < 10         |
| Tetrabromobiphenyl       | mg/kg | < 10        | < 10        | < 10         |
| Pentabromobiphenyl       | mg/kg | < 10        | < 10        | < 10         |
| Hexabromobiphenyl        | mg/kg | < 10        | < 10        | < 10         |
| Heptabromobiphenyl       | mg/kg | < 10        | < 10        | < 10         |
| Octabromobiphenyl        | mg/kg | < 10        | < 10        | < 10         |
| Nonabromobiphenyl        | mg/kg | < 10        | < 10        | < 10         |
| Decabromobiphenyl        | mg/kg | < 10        | < 10        | < 10         |
| Total PBB                | mg/kg | -           | -           | -            |
| Conclusion               |       | Pass        | Pass        | Pass         |

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| <u>Subsample(s)</u>      | <u>Unit</u> | <u>Result</u><br><b>13</b> |
|--------------------------|-------------|----------------------------|
| Bromodiphenyl ether      | mg/kg       | < 10                       |
| Dibromodiphenyl ether    | mg/kg       | < 10                       |
| Tribromodiphenyl ether   | mg/kg       | < 10                       |
| Tetrabromodiphenyl ether | mg/kg       | < 10                       |
| Pentabromodiphenyl ether | mg/kg       | < 10                       |
| Hexabromodiphenyl ether  | mg/kg       | < 10                       |
| Heptabromodiphenyl ether | mg/kg       | < 10                       |
| Octabromodiphenyl ether  | mg/kg       | < 10                       |
| Nonabromodiphenyl ether  | mg/kg       | < 10                       |
| Decabromodiphenyl ether  | mg/kg       | < 10                       |
| Total PBDE               | mg/kg       | -                          |
| Bromobiphenyl            | mg/kg       | < 10                       |
| Dibromobiphenyl          | mg/kg       | < 10                       |
| Tribromobiphenyl         | mg/kg       | < 10                       |
| Tetrabromobiphenyl       | mg/kg       | < 10                       |
| Pentabromobiphenyl       | mg/kg       | < 10                       |
| Hexabromobiphenyl        | mg/kg       | < 10                       |
| Heptabromobiphenyl       | mg/kg       | < 10                       |
| Octabromobiphenyl        | mg/kg       | < 10                       |
| Nonabromobiphenyl        | mg/kg       | < 10                       |
| Decabromobiphenyl        | mg/kg       | < 10                       |
| Total PBB                | mg/kg       | -                          |
| Conclusion               |             | Pass                       |

Note:

|                     |                          |                                                          |
|---------------------|--------------------------|----------------------------------------------------------|
| <b>Requirement:</b> | Tetrabromodiphenyl ether | max. 10 mg/kg according to Regulation (EU) No. 2019/1021 |
|                     | Pentabromodiphenyl ether | max. 10 mg/kg according to Regulation (EU) No. 2019/1021 |
|                     | Hexabromodiphenyl ether  | max. 10 mg/kg according to Regulation (EU) No. 2019/1021 |
|                     | Heptabromodiphenyl ether | max. 10 mg/kg according to Regulation (EU) No. 2019/1021 |
|                     | Decabromodiphenyl ether  | max. 10 mg/kg according to Regulation (EU) No. 2019/1021 |

## Other flame retardants

### Test Method

SOP M 888 2019-08, Analysis was conducted with GC-MS after extraction with Toluene

| <u>Subsample(s)</u>                      | <u>Unit</u> | <u>Result</u><br><b>1</b> | <u>Result</u><br><b>8</b> | <u>Result</u><br><b>10</b> |
|------------------------------------------|-------------|---------------------------|---------------------------|----------------------------|
| Tris(1-aziridinyl)phosphine oxide (TEPA) | mg/kg       | < 100                     | < 100                     | < 100                      |
| Tris(2,3 dibromopropyl) phosphate (TRIS) | mg/kg       | < 100                     | < 100                     | < 100                      |
| Tetrabromobisphenol A (TBBPA)            | mg/kg       | < 50                      | < 50                      | < 50                       |
| Hexabromocyclododecane (HBCD)            | mg/kg       | < 50                      | < 50                      | < 50                       |
| Conclusion                               |             | Pass                      | Pass                      | Pass                       |

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| <u>Subsample(s)</u>                      | <u>Unit</u> | <u>Result</u> |
|------------------------------------------|-------------|---------------|
|                                          |             | <b>13</b>     |
| Tris(1-aziridinyl)phosphine oxide (TEPA) | mg/kg       | < 100         |
| Tris(2,3 dibromopropyl) phosphate (TRIS) | mg/kg       | < 100         |
| Tetrabromobisphenol A (TBBPA)            | mg/kg       | < 50          |
| Hexabromocyclododecane (HBCD)            | mg/kg       | < 50          |
| Conclusion                               |             | Pass          |

Note:

**Requirement:** Hexabromocyclododecane max. 100 mg/kg according to Regulation (EU) Nr. 2019/1021

\*\*\* End of test report \*\*\*

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