

## Certificate Of Analysis

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**Report number:** DL9200230-083936-1

**Print date:** 2023-06-22

Applicant: Koopman International  
Country: The Netherlands  
Article description: YOYO WITH LIGHT 6X6X3,3CM  
Item number: DL9200230  
Order number: 083936  
Date of article received: juni 12, 2023  
Date testing completed: juni 22, 2023  
EAN code: 8720573838214

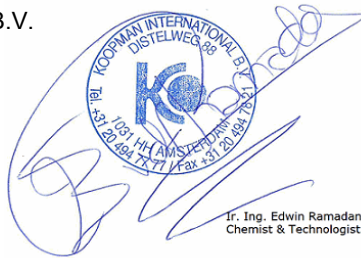
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**Conclusion :** **Passed**

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The test results only apply to the tested specimens

Signed for and on behalf of Koopman International B.V.



Ir. Ing. Edwin Ramadan  
Chemist & Technologist

Koopman International BV has a verified Bureau Veritas procedure of Laboratory Testing and a Bureau Veritas verification of REACH compliance. The test itself and the associated report is reviewed by Koopman International BV.



**Summary of tested parts.**

***Part(s) description:***

off white cord

black body

grey body

transparent body

white inner part

SOLDER on PCB

(The test results for the above part(s) are listed on the following pages.)

**Picture of the tested samples**





## Tested parts

Part description: **off white cord**

Analysis: **EN71 part 9**

According to: Directive 2014/79/EU - TCEP, TCPP, TDCP + Directive 2014/81/EU - Bisphenol A (BPA)

Testing conditions: EN71 PART 9

Component	Result	Specification
TCEP	Not Detected	Result <= MAX 5
TDCPP	Not Detected	Result <= MAX 5
TCPP	Not Detected	Result <= MAX 5

Analysis: **Phthalates**

According to: Reach (EC) 1907/2006 - Annex XVII, entry 51-52 on phthalates content and entry 28-29-30 on CMR content. Phthalates Regulations SOR/2016-188 CANADA CONSUMER PRODUCT SAFETY ACT

Testing conditions: CPSC\_CH\_C1001-09.3 EPA3546 / ASTM D7823-14

Component	Result	Specification
DMP	0 ppm	Result <= MAX 1000000
DEP	0 ppm	Result <= MAX 1000000
DAP	0 ppm	Result <= MAX 1000000
DIBP	0 ppm	Result <= MAX 1000
DBP	0 ppm	Result <= MAX 1000
DMEP	0 ppm	Result <= MAX 3000
DPP	0 ppm	Result <= MAX 3000
DIPP	0 ppm	Result <= MAX 3000
nPiPP	0 ppm	Result <= MAX 3000
BBP	0 ppm	Result <= MAX 1000
DHP	0 ppm	Result <= MAX 3000
DEEP	0 ppm	Result <= MAX 1000000
DEHP	0 ppm	Result <= MAX 1000
DIHpP	0 ppm	Result <= MAX 3000
DNOP	0 ppm	Result <= MAX 1000
DINP	0 ppm	Result <= MAX 1000
DIDP	0 ppm	Result <= MAX 1000
DIHxP	0 ppm	Result <= MAX 1000000
DHNUP	0 ppm	Result <= MAX 1000000
Phthalates (Toys mouthable)	0 ppm	Result <= MAX 1000
Phthalates (Toys all ages)	0 ppm	Result <= MAX 1000

Analysis: **SCCP, Chloroparaffins**

According to: Regulation (EC) 2019/1021 - Persistent Organic Pollutants (POP) on SCCP.

Testing conditions: CPSC\_CH\_C1001-09.3 EPA3546 / ASTM D7823-14

Component	Result	Specification
Chloroparaffins total	0 ppm	Result < MAX 1500



## Tested parts

Part description: **off white cord**

Analysis: **PCN**

According to: Regulation (EC) 2019/1021 - Persistent Organic Pollutants (POP) on PCN.

Testing conditions: CPSC\_CH\_C1001-09.3 EPA3546 / ASTM D7823-14

Component	Result	Specification
Halowax 1000 mono PCN	Not Detected	Result < MAX 0,1
Halowax 1000 di PCN	Not Detected	Result < MAX 0,1
Halowax 1001 tri PCN	Not Detected	Result < MAX 0,1
Halowax 1013 tetra PCN	Not Detected	Result < MAX 0,1
Halowax 1014 penta PCN	Not Detected	Result < MAX 0,1
Halowax 1014 hexa PCN	Not Detected	Result < MAX 0,1
Halowax 1051 hepta PCN	Not Detected	Result < MAX 0,1
Halowax 1051 octa PCN	Not Detected	Result < MAX 0,1

Analysis: **Flame retardants (PBDE and PBB)**

According to: Regulation (EC) 2019/1021 - Persistent Organic Pollutants (POP) on PBDE.

Testing conditions: 111/54/CDV & IEC 62321

Component	Result	Specification
PBDE Total POP	Not detected	Result <= MAX 500

Analysis: **OCP & DMF**

According to: Reach 1907/2006 Annex XVII, entry 61 on DMF

Testing conditions: CPSC\_CH\_C1001-09.3 EPA3546 / ASTM D7823-14

Component	Result	Specification
DMF (DIMETHYLFUMARATE)	Not Detected	Result < MAX 0.1
a BHC	Not Detected	Result < MAX 1.0
Hexachlorobenzene	Not Detected	Result < MAX 1.0
d BHC	Not Detected	Result < MAX 1.0
b BHC	Not Detected	Result < MAX 1.0
g BHC	Not Detected	Result < MAX 1.0
Heptachlor epoxide A	Not Detected	Result < MAX 1.0
Heptachlor epoxide B	Not Detected	Result < MAX 1.0
Heptachlor	Not Detected	Result < MAX 1.0
Aldrin	Not Detected	Result < MAX 1.0
Isodrin	Not Detected	Result < MAX 1.0
Endrin	Not Detected	Result < MAX 1.0
Endosulfan I	Not Detected	Result < MAX 1.0
Endosulfan II	Not Detected	Result < MAX 1.0
44 DDE	Not Detected	Result < MAX 1,0
Dieldrin	Not Detected	Result < MAX 1.0
44 DDD	Not Analyzed	Result < MAX 1,0
44 DDT	Not Detected	Result < MAX 1,0





## Tested parts

Part description: **off white cord**

Analysis: **OCP & DMF**

According to: Reach 1907/2006 Annex XVII, entry 61 on DMF

Testing conditions: CPSC\_CH\_C1001-09.3 EPA3546 / ASTM D7823-14

Component	Result	Specification
Endosulfan Sulfate	Not Detected	Result < MAX 1,0
Methoxychlor	Not Detected	Result < MAX 1.0
Mirex	Not Detected	Result < MAX 1.0
Hexachloro-1-3-butadiene	Not Detected	Result < MAX 1.0
Toxaphene	Not Detected	Result < MAX 1.0
Kepona	Not Detected	Result < MAX 1.0

Analysis: **SVOC & CMR**

According to: Reach 1907/2006 Annex XVII, entry 28-29-30, CMR content

Testing conditions: CPSC\_CH\_C1001-09.3 EPA3546 / ASTM D7823-14

Component	Result	Specification
PENTACHLOROETHANE	Not Detected	Result < MAX 10000
2 AMINO NAPHTHALENE	Not Detected	Result < MAX 1000
DIPHENYL AMINE	Not Detected	Result < MAX 100
BENZYLALCOHOL	Not Detected	Result <= MAX 100

Analysis: **Phenols**

According to: POP EU/2019/1021 on PCP content.

Testing conditions: CPSC\_CH\_C1001-09.3 EPA3546 / ASTM D7823-14

Component	Result	Specification
Phenol / Phenylalcohol	8 ppm	Result <= MAX 10
Phenol, 2,4,6-trichloro-	Not Detected	Result <= MAX 10000
Phenol, 2-methyl-4,6-dinitro-	Not Detected	Result <= MAX 10000
Phenol, pentachloro- / PCP	Not Detected	Result <= MAX 5

Analysis: **PCB**

According to: POP COMMISSION REGULATION No EC 2019/1021

Testing conditions: CPSC\_CH\_C1001-09.3 EPA3546 / ASTM D7823-14

Component	Result	Specification
Chlorobiphenyl	Not Detected	Result <= MAX 1.0
Dichlorobiphenyl	Not Detected	Result <= MAX 1.0
Trichlorobiphenyl	Not Detected	Result <= MAX 1.0
Tetrachlorobiphenyl	Not Detected	Result <= MAX 1.0
Pentachlorobiphenyl	Not Detected	Result <= MAX 1.0
Hexachlorobiphenyl	Not Detected	Result <= MAX 1.0
Heptachlorobiphenyl	Not Detected	Result <= MAX 1.0



## Tested parts

Part description: **off white cord**

Analysis: **PCB**

According to: POP COMMISSION REGULATION No EC 2019/1021

Testing conditions: CPSC\_CH\_C1001-09.3 EPA3546 / ASTM D7823-14

Component	Result	Specification
Octachlorobiphenyl	Not Detected	Result <= MAX 1.0
Decachlorobiphenyl	Not Detected	Result <= MAX 1.0

Analysis: **PAA**

According to: TSD 2009/48/EC - Reach 1907/2006 Annex XVII, entry 28-29-30, CMR content

Testing conditions: CPSC\_CH\_C1001-09.3 EPA3546 / ASTM D7823-14

Component	Result	Specification
o Aminoazotoluene	Not Detected	Result <= MAX 1000
4 Aminobiphenyl	Not Detected	Result <= MAX 1000
5 Nitro o Toluidine	Not Detected	Result <= MAX 10000
Benzidine	Not Detected	Result <= MAX 1000
4 Chloroaniline	Not Detected	Result <= MAX 1000
4 Chloro o Toluidine	Not Detected	Result <= MAX 1000
p Cresidine	Not Detected	Result <= MAX 1000
44 Diaminodiphenylmethane	Not Detected	Result <= MAX 1000
24 Diaminotoluene	Not Detected	Result <= MAX 1000
33 Dichlorobenzidine	Not Detected	Result <= MAX 1000
33 Dimethoxybenzidine	Not Detected	Result <= MAX 1000
33 Dimethylbenzidine	Not Detected	Result <= MAX 1000
Bis 3 chloro 4 aminophenyl methane	Not Detected	Result <= MAX 1000
44 Methylenedi o toluidine	Not Detected	Result <= MAX 1000
2 Naphthylamine	Not Detected	Result <= MAX 1000
44 Oxydianiline	Not Detected	Result <= MAX 1000
44 Thiodianiline	Not Detected	Result <= MAX 1000
o Toluidine	Not Detected	Result <= MAX 1000
245 Trimethylaniline	Not Detected	Result <= MAX 1000
Phenylazoaniline	Not Detected	Result <= MAX 1000
2 Aminobiphenyl	Not Detected	Result <= MAX 1000000
o Anisidine	Not Detected	Result <= MAX 1000
Azobenzene	Not Detected	Result <= MAX 1000
Aniline	Not Detected	Result <= MAX 10000

Analysis: **PAH (15 ZEK - EPA)**

According to: Geprüfte Sicherheit (GS) - AfPS Polyzyklischen Aromatischen Kohlenwasserstoffen (PAK)

Testing conditions: AfPS GS 2014:01 PAK Category 1

Component	Result	Specification
Benzo a pyrene	Not Detected	Result <= MAX 0.2



## Tested parts

Part description: **off white cord**

Analysis: **PAH (15 ZEK - EPA)**

According to: Geprüfte Sicherheit (GS) - AfPS Polyzyklischen Aromatischen Kohlenwasserstoffen (PAK)

Testing conditions: AfPS GS 2014:01 PAK Category 1

Component	Result	Specification
Benzo a anthracene	Not Detected	Result <= MAX 0.2
Chrysene	Not Detected	Result <= MAX 0.2
Benzo b fluoranthene	Not Detected	Result <= MAX 0.2
Benzo k fluoranthene	Not Detected	Result <= MAX 0.2
Dibenz ah anthracene	Not Detected	Result <= MAX 0.2
Benzo j fluoranthene	Not Detected	Result <= MAX 0.2
Benzo e pyrene	Not Detected	Result <= MAX 0.2
Indeno 123cd pyrene	Not Detected	Result <= MAX 0.2
Benzo ghi perylene	Not Detected	Result <= MAX 0.2
Acenaphthylene	Not Detected	Result <= MAX 1000000
Acenaphthene	Not Detected	Result <= MAX 1000000
Fluorene	Not Detected	Result <= MAX 1000000
Phenanthrene	Not Detected	Result <= MAX 1
Anthracene	Not Detected	Result <= MAX 1
Fluoranthene	Not Detected	Result <= MAX 1
Pyrene	Not Detected	Result <= MAX 1
Naphthalene	Not Detected	Result <= MAX 1
sum of 4 PAH	Not detected	Result <= MAX 1
sum of 15 PAH	Not detected	Result <= MAX 1
Anthracene oils and pastes	Not detected	Result <= MAX 1000
Coal tar	Not detected	Result <= MAX 1000

Analysis: **Reach restrictions annex 17**

According to: Reach 1907/2006 Annex XVII, entry 5-28-29-30, CMR content

Testing conditions: CPSC\_CH\_C1001-09.3 EPA3546 / ASTM D7823-14

Component	Result	Specification
Benzene	Not Detected	Result <= MAX 5,0
DEGME	Not Detected	Result <= MAX 30000
4-Nitrobiphenyl	Not Detected	Result <= MAX 1000
1,4-dichloro-butene trans	Not Analyzed	Result <= MAX 1000
1,4-dichloro-butene cis	Not Analyzed	Result <= MAX 1000
N,N-dimethylhydrazine	Not Detected	Result <= MAX 1000
dimethylcarbamoyl chloride	Not Analyzed	Result <= MAX 1000

Analysis: **Heavy metals content**

According to: Reach (EC) 1907/2006 - Annex XVII entry 20-21 on Organostannic, 23 on Cadmium, 62 on Mercury, 63 on Lead & Ban of products containing lead - BEK 856.

## Tested parts

Part description: **off white cord**

Analysis: **Heavy metals content**

**According to:** Reach (EC) 1907/2006 - Annex XVII entry 20-21 on Organostannic, 23 on Cadmium, 62 on Mercury, 63 on Lead & Ban of products containing lead - BEK 856.

**Testing conditions:** 111/54/CDV & IEC 62321 & NPR-CR 10299

Component	Result	Specification
Cadmium	0 ppm	Result <= MAX 100
Lead	0 ppm	Result <= MAX 100
Mercury	0 ppm	Result <= MAX 100
Tin	5 ppm	Result <= MAX 1000000
Chlorine	0 ppm	Result <= MAX 1000000

Analysis: **SVHC**

**According to:** Reach 1907/2006 art 33-57 on SVHC

**Testing conditions:** CPSC\_CH\_C1001-09.3 EPA3546 / ASTM D7823-14

Component	Result	Specification
2 Methoxy ethanol	Not Detected	Result <= MAX 3000
Methoxyacetic acid	Not Detected	Result <= MAX 3000
1,2 Dichloroethane	Not Detected	Result <= MAX 1000
N methylacetamide	Not Detected	Result <= MAX 3000
NN dimethylformamide	Not Detected	Result <= MAX 3000
Acrylamide	Not Detected	Result <= MAX 1000
2-ethoxyethyl acetate	Not Detected	Result <= MAX 3000
1 Bromopropane	Not Detected	Result <= MAX 3000
1,2,3 Trichloropropane	Not Detected	Result <= MAX 1000
Bis(2methoxyethyl)ether	Not Detected	Result <= MAX 3000
Trichloro ethene	Not Detected	Result <= MAX 1000
2 Ethoxy ethanol	Not Detected	Result <= MAX 3000
TBTO	Not Detected	
TCEP	Not Detected	Result <= MAX 3000
DNT	Not Detected	Result <= MAX 1000
DINOSEB	Not Detected	Result <= MAX 3000
4 tert Octylphenol	Not Detected	
Nonyl Phenol	Not Detected	Result <= MAX 100
Musk Xylene	Not Detected	Result <= MAX 10000
o Toluidine	Not Detected	Result <= MAX 1000
4,4 MDA	Not Detected	Result <= MAX 1000
o Anisidine	Not Detected	Result <= MAX 1000
4 Aminobiphenyl	Not Detected	Result <= MAX 1000
p Cresidine	Not Detected	Result <= MAX 1000
2,4 Diaminotoluene	Not Detected	Result <= MAX 1000
4,4 Methylenedi o toluidine	Not Detected	Result <= MAX 1000
4,4 Oxydianiline	Not Detected	Result <= MAX 1000





## Tested parts

Part description: **off white cord**

Analysis: **SVHC**

According to: Reach 1907/2006 art 33-57 on SVHC

Testing conditions: CPSC\_CH\_C1001-09.3 EPA3546 / ASTM D7823-14

Component	Result	Specification
12 Cyclohexanedicarboxylic anhydride	Not Detected	
Hexahydro-4-methylphthalic anhydride	Not Detected	
Phenolphthalein	Not Detected	Result <= MAX 1000
Basic Violet 3	Not Detected	Result <= MAX 10000
Victoria Blue 26	Not Detected	Result <= MAX 1000
TEGDME	Not Detected	Result <= MAX 3000
EGDME	Not Detected	Result <= MAX 3000
Michlers ketone	Not Detected	Result <= MAX 1000
Michlers base	Not Detected	Result <= MAX 1000
TGIC	Not Detected	Result <= MAX 1000
B-TGIC	Not Detected	Result <= MAX 1000
Direct red 28	Not Detected	Result <= MAX 1000
Direct black 38	Not Detected	Result <= MAX 1000
Trixylyl phosphate	Not Detected	Result <= MAX 3000
Formaldehyde oligomer reaction products	0 ppm	
DBTDC	Not Detected	Result <= MAX 3000
12 Diethoxyethane	Not Detected	Result <= MAX 3000
Imidazolidine-2-thione	Not Detected	Result <= MAX 3000
UV-328	Not Detected	
Uvazol 237	0 ppm	
UV-350	Not Detected	
HBCDD total	Not Detected	Result <= MAX 100
Amber Dioxade Isomers	Not Detected	
Bisphenol A	Not Detected	Result <= MAX 3000
11 Dimethylpropylphenol	Not Detected	
4-tert-Amylphenol	Not Detected	
4-n-Heptylphenol	Not Detected	
Dechlorane Plus	Not Detected	
Terphenyl hydrogenated	Not Detected	
Ethylenediamine	Not Detected	
TMA	Not Detected	
4MBC	Not Detected	
3BC	Not Detected	
PTBP	Not Detected	Result <= MAX 30000
22-Bis-hydroxyphenyl-4-methylpentane	Not Detected	Result <= MAX 3000
DMAC	Not Detected	Result <= MAX 3000
MCCP	Not detected	

## Tested parts

Part description: **black body**

Analysis: **EN71 part 9**

**According to:** Directive 2014/79/EU - TCEP, TCPP, TDCP + Directive 2014/81/EU - Bisphenol A (BPA)

**Testing conditions:** EN71 PART 9

Component	Result	Specification
TCEP	Not Detected	Result <= MAX 5
TDCPP	Not Detected	Result <= MAX 5
TCPP	Not Detected	Result <= MAX 5

Analysis: **Phthalates**

**According to:** Reach (EC) 1907/2006 - Annex XVII, entry 51-52 on phthalates content and entry 28-29-30 on CMR content. Phthalates Regulations SOR/2016-188 CANADA CONSUMER PRODUCT SAFETY ACT

**Testing conditions:** CPSC\_CH\_C1001-09.3 EPA3546 / ASTM D7823-14

Component	Result	Specification
DMP	0 ppm	Result <= MAX 1000000
DEP	0 ppm	Result <= MAX 1000000
DAP	0 ppm	Result <= MAX 1000000
DIBP	0 ppm	Result <= MAX 1000
DBP	0 ppm	Result <= MAX 1000
DMEP	0 ppm	Result <= MAX 3000
DPP	0 ppm	Result <= MAX 3000
DIPP	0 ppm	Result <= MAX 3000
nPiPP	0 ppm	Result <= MAX 3000
BBP	0 ppm	Result <= MAX 1000
DHP	0 ppm	Result <= MAX 3000
DEEP	0 ppm	Result <= MAX 1000000
DEHP	0 ppm	Result <= MAX 1000
DIH <sub>p</sub> P	0 ppm	Result <= MAX 3000
DNOP	0 ppm	Result <= MAX 1000
DINP	0 ppm	Result <= MAX 1000
DIDP	0 ppm	Result <= MAX 1000
DIH <sub>x</sub> P	0 ppm	Result <= MAX 1000000
DHNUP	0 ppm	Result <= MAX 1000000
Phthalates (Toys mouthable)	0 ppm	Result <= MAX 1000
Phthalates (Toys all ages)	0 ppm	Result <= MAX 1000

Analysis: **SCCP, Chloroparaffins**

**According to:** Regulation (EC) 2019/1021 - Persistent Organic Pollutants (POP) on SCCP.

**Testing conditions:** CPSC\_CH\_C1001-09.3 EPA3546 / ASTM D7823-14

Component	Result	Specification
Chloroparaffins total	0 ppm	Result < MAX 1500



## Tested parts

Part description: **black body**

Analysis: **PCN**

According to: Regulation (EC) 2019/1021 - Persistent Organic Pollutants (POP) on PCN.

Testing conditions: CPSC\_CH\_C1001-09.3 EPA3546 / ASTM D7823-14

Component	Result	Specification
Halowax 1000 mono PCN	Not Detected	Result < MAX 0,1
Halowax 1000 di PCN	Not Detected	Result < MAX 0,1
Halowax 1001 tri PCN	Not Detected	Result < MAX 0,1
Halowax 1013 tetra PCN	Not Detected	Result < MAX 0,1
Halowax 1014 penta PCN	Not Detected	Result < MAX 0,1
Halowax 1014 hexa PCN	Not Detected	Result < MAX 0,1
Halowax 1051 hepta PCN	Not Detected	Result < MAX 0,1
Halowax 1051 octa PCN	Not Detected	Result < MAX 0,1

Analysis: **Flame retardants (PBDE and PBB)**

According to: Regulation (EC) 2019/1021 - Persistent Organic Pollutants (POP) on PBDE.

Testing conditions: 111/54/CDV & IEC 62321

Component	Result	Specification
PBDE Total POP	Not detected	Result <= MAX 500

Analysis: **OCP & DMF**

According to: Reach 1907/2006 Annex XVII, entry 61 on DMF

Testing conditions: CPSC\_CH\_C1001-09.3 EPA3546 / ASTM D7823-14

Component	Result	Specification
DMF (DIMETHYLFUMARATE)	Not Detected	Result < MAX 0.1
a BHC	Not Detected	Result < MAX 1.0
Hexachlorobenzene	Not Detected	Result < MAX 1.0
d BHC	Not Detected	Result < MAX 1.0
b BHC	Not Detected	Result < MAX 1.0
g BHC	Not Detected	Result < MAX 1.0
Heptachlor epoxide A	Not Detected	Result < MAX 1.0
Heptachlor epoxide B	Not Detected	Result < MAX 1.0
Heptachlor	Not Detected	Result < MAX 1.0
Aldrin	Not Detected	Result < MAX 1.0
Isodrin	Not Detected	Result < MAX 1.0
Endrin	Not Detected	Result < MAX 1.0
Endosulfan I	Not Detected	Result < MAX 1.0
Endosulfan II	Not Detected	Result < MAX 1.0
44 DDE	Not Detected	Result < MAX 1,0
Dieldrin	Not Detected	Result < MAX 1.0
44 DDD	Not Analyzed	Result < MAX 1,0
44 DDT	Not Detected	Result < MAX 1,0



## Tested parts

Part description: **black body**

Analysis: **OCP & DMF**

According to: Reach 1907/2006 Annex XVII, entry 61 on DMF

Testing conditions: CPSC\_CH\_C1001-09.3 EPA3546 / ASTM D7823-14

Component	Result	Specification
Endosulfan Sulfate	Not Detected	Result < MAX 1,0
Methoxychlor	Not Detected	Result < MAX 1.0
Mirex	Not Detected	Result < MAX 1.0
Hexachloro-1-3-butadiene	Not Detected	Result < MAX 1.0
Toxaphene	Not Detected	Result < MAX 1.0
Kepone	Not Detected	Result < MAX 1.0

Analysis: **SVOC & CMR**

According to: Reach 1907/2006 Annex XVII, entry 28-29-30, CMR content

Testing conditions: CPSC\_CH\_C1001-09.3 EPA3546 / ASTM D7823-14

Component	Result	Specification
PENTACHLOROETHANE	Not Detected	Result < MAX 10000
2 AMINO NAPHTHALENE	Not Detected	Result < MAX 1000
DIPHENYL AMINE	Not Detected	Result < MAX 100
BENZYLALCOHOL	Not Detected	Result <= MAX 100

Analysis: **Phenols**

According to: POP EU/2019/1021 on PCP content.

Testing conditions: CPSC\_CH\_C1001-09.3 EPA3546 / ASTM D7823-14

Component	Result	Specification
Phenol / Phenylalcohol	Not Detected	Result <= MAX 10
Phenol, 2,4,6-trichloro-	Not Detected	Result <= MAX 10000
Phenol, 2-methyl-4,6-dinitro-	Not Detected	Result <= MAX 10000
Phenol, pentachloro- / PCP	Not Detected	Result <= MAX 5

Analysis: **PCB**

According to: POP COMMISSION REGULATION No EC 2019/1021

Testing conditions: CPSC\_CH\_C1001-09.3 EPA3546 / ASTM D7823-14

Component	Result	Specification
Chlorobiphenyl	Not Detected	Result <= MAX 1.0
Dichlorobiphenyl	Not Detected	Result <= MAX 1.0
Trichlorobiphenyl	Not Detected	Result <= MAX 1.0
Tetrachlorobiphenyl	Not Detected	Result <= MAX 1.0
Pentachlorobiphenyl	Not Detected	Result <= MAX 1.0
Hexachlorobiphenyl	Not Detected	Result <= MAX 1.0
Heptachlorobiphenyl	Not Detected	Result <= MAX 1.0

## Tested parts

Part description: **black body**

Analysis: **PCB**

According to: POP COMMISSION REGULATION No EC 2019/1021

Testing conditions: CPSC\_CH\_C1001-09.3 EPA3546 / ASTM D7823-14

Component	Result	Specification
Octachlorobiphenyl	Not Detected	Result <= MAX 1.0
Decachlorobiphenyl	Not Detected	Result <= MAX 1.0

Analysis: **PAA**

According to: TSD 2009/48/EC - Reach 1907/2006 Annex XVII, entry 28-29-30, CMR content

Testing conditions: CPSC\_CH\_C1001-09.3 EPA3546 / ASTM D7823-14

Component	Result	Specification
o Aminoazotoluene	Not Detected	Result <= MAX 1000
4 Aminobiphenyl	Not Detected	Result <= MAX 1000
5 Nitro o Toluidine	Not Detected	Result <= MAX 10000
Benzidine	Not Detected	Result <= MAX 1000
4 Chloroaniline	Not Detected	Result <= MAX 1000
4 Chloro o Toluidine	Not Detected	Result <= MAX 1000
p Cresidine	Not Detected	Result <= MAX 1000
44 Diaminodiphenylmethane	Not Detected	Result <= MAX 1000
24 Diaminotoluene	Not Detected	Result <= MAX 1000
33 Dichlorobenzidine	Not Detected	Result <= MAX 1000
33 Dimethoxybenzidine	Not Detected	Result <= MAX 1000
33 Dimethylbenzidine	Not Detected	Result <= MAX 1000
Bis 3 chloro 4 aminophenyl methane	Not Detected	Result <= MAX 1000
44 Methylenedi o toluidine	Not Detected	Result <= MAX 1000
2 Naphthylamine	Not Detected	Result <= MAX 1000
44 Oxydianiline	Not Detected	Result <= MAX 1000
44 Thiodianiline	Not Detected	Result <= MAX 1000
o Toluidine	Not Detected	Result <= MAX 1000
245 Trimethylaniline	Not Detected	Result <= MAX 1000
Phenylazoaniline	Not Detected	Result <= MAX 1000
2 Aminobiphenyl	Not Detected	Result <= MAX 1000000
o Anisidine	Not Detected	Result <= MAX 1000
Azobenzene	Not Detected	Result <= MAX 1000
Aniline	Not Detected	Result <= MAX 10000

Analysis: **PAH (15 ZEK - EPA)**

According to: Geprüfte Sicherheit (GS) - AfPS Polyzyklischen Aromatischen Kohlenwasserstoffen (PAK)

Testing conditions: AfPS GS 2014:01 PAK Category 1

Component	Result	Specification
Benzo a pyrene	Not Detected	Result <= MAX 0.2



## Tested parts

Part description: **black body**

Analysis: **PAH (15 ZEK - EPA)**

According to: Geprüfte Sicherheit (GS) - AfPS Polyzyklischen Aromatischen Kohlenwasserstoffen (PAK)

Testing conditions: AfPS GS 2014:01 PAK Category 1

Component	Result	Specification
Benzo a anthracene	Not Detected	Result <= MAX 0.2
Chrysene	Not Detected	Result <= MAX 0.2
Benzo b fluoranthene	Not Detected	Result <= MAX 0.2
Benzo k fluoranthene	Not Detected	Result <= MAX 0.2
Dibenz ah anthracene	Not Detected	Result <= MAX 0.2
Benzo j fluoranthene	Not Detected	Result <= MAX 0.2
Benzo e pyrene	Not Detected	Result <= MAX 0.2
Indeno 123cd pyrene	Not Detected	Result <= MAX 0.2
Benzo ghi perylene	Not Detected	Result <= MAX 0.2
Acenaphthylene	Not Detected	Result <= MAX 1000000
Acenaphthene	Not Detected	Result <= MAX 1000000
Fluorene	Not Detected	Result <= MAX 1000000
Phenanthrene	Not Detected	Result <= MAX 1
Anthracene	Not Detected	Result <= MAX 1
Fluoranthene	Not Detected	Result <= MAX 1
Pyrene	Not Detected	Result <= MAX 1
Naphthalene	Not Detected	Result <= MAX 1
sum of 4 PAH	Not detected	Result <= MAX 1
sum of 15 PAH	Not detected	Result <= MAX 1
Anthracene oils and pastes	Not detected	Result <= MAX 1000
Coal tar	Not detected	Result <= MAX 1000

Analysis: **Reach restrictions annex 17**

According to: Reach 1907/2006 Annex XVII, entry 5-28-29-30, CMR content

Testing conditions: CPSC\_CH\_C1001-09.3 EPA3546 / ASTM D7823-14

Component	Result	Specification
Benzene	Not Detected	Result <= MAX 5,0
DEGME	Not Detected	Result <= MAX 30000
4-Nitrobiphenyl	Not Detected	Result <= MAX 1000
1,4-dichloro-butene trans	Not Analyzed	Result <= MAX 1000
1,4-dichloro-butene cis	Not Analyzed	Result <= MAX 1000
N,N-dimethylhydrazine	Not Detected	Result <= MAX 1000
dimethylcarbamoyl chloride	Not Analyzed	Result <= MAX 1000

Analysis: **Heavy metals content**

According to: Reach (EC) 1907/2006 - Annex XVII entry 20-21 on Organostannic, 23 on Cadmium, 62 on Mercury, 63 on Lead & Ban of products containing lead - BEK 856.

## Tested parts

Part description: **black body**

Analysis: **Heavy metals content**

**According to:** Reach (EC) 1907/2006 - Annex XVII entry 20-21 on Organostannic, 23 on Cadmium, 62 on Mercury, 63 on Lead & Ban of products containing lead - BEK 856.

**Testing conditions:** 111/54/CDV & IEC 62321 & NPR-CR 10299

Component	Result	Specification
Cadmium	0 ppm	Result <= MAX 100
Lead	0 ppm	Result <= MAX 100
Mercury	0 ppm	Result <= MAX 100
Tin	5 ppm	Result <= MAX 1000000
Chlorine	0 ppm	Result <= MAX 1000000

Analysis: **SVHC**

**According to:** Reach 1907/2006 art 33-57 on SVHC

**Testing conditions:** CPSC\_CH\_C1001-09.3 EPA3546 / ASTM D7823-14

Component	Result	Specification
2 Methoxy ethanol	Not Detected	Result <= MAX 3000
Methoxyacetic acid	Not Detected	Result <= MAX 3000
12 Dichloroethane	Not Detected	Result <= MAX 1000
N methylacetamide	Not Detected	Result <= MAX 3000
NN dimethylformamide	Not Detected	Result <= MAX 3000
Acrylamide	Not Detected	Result <= MAX 1000
2-ethoxyethyl acetate	Not Detected	Result <= MAX 3000
1 Bromopropane	Not Detected	Result <= MAX 3000
123 Trichloropropane	Not Detected	Result <= MAX 1000
Bis(2methoxyethyl)ether	Not Detected	Result <= MAX 3000
Trichloro ethene	Not Detected	Result <= MAX 1000
2 Ethoxy ethanol	Not Detected	Result <= MAX 3000
TBTO	Not Detected	
TCEP	Not Detected	Result <= MAX 3000
DNT	Not Detected	Result <= MAX 1000
DINOSEB	Not Detected	Result <= MAX 3000
4 tert Octylphenol	Not Detected	
Nonyl Phenol	Not Detected	Result <= MAX 100
Musk Xylene	Not Detected	Result <= MAX 10000
o Toluidine	Not Detected	Result <= MAX 1000
44 MDA	Not Detected	Result <= MAX 1000
o Anisidine	Not Detected	Result <= MAX 1000
4 Aminobiphenyl	Not Detected	Result <= MAX 1000
p Cresidine	Not Detected	Result <= MAX 1000
24 Diaminotoluene	Not Detected	Result <= MAX 1000
44 Methylenedi o toluidine	Not Detected	Result <= MAX 1000
44 Oxydianiline	Not Detected	Result <= MAX 1000

## Tested parts

Part description: **black body**

Analysis: **SVHC**

According to: Reach 1907/2006 art 33-57 on SVHC

Testing conditions: CPSC\_CH\_C1001-09.3 EPA3546 / ASTM D7823-14

Component	Result	Specification
12 Cyclohexanedicarboxylic anhydride	Not Detected	
Hexahydro-4-methylphtalic anhydride	Not Detected	
Phenolphthalein	Not Detected	Result <= MAX 1000
Basic Violet 3	Not Detected	Result <= MAX 10000
Victoria Blue 26	Not Detected	Result <= MAX 1000
TEGDME	Not Detected	Result <= MAX 3000
EGDME	Not Detected	Result <= MAX 3000
Michlers ketone	Not Detected	Result <= MAX 1000
Michlers base	Not Detected	Result <= MAX 1000
TGIC	Not Detected	Result <= MAX 1000
B-TGIC	Not Detected	Result <= MAX 1000
Direct red 28	Not Detected	Result <= MAX 1000
Direct black 38	Not Detected	Result <= MAX 1000
Trixylyl phosphate	Not Detected	Result <= MAX 3000
Formaldehyde oligomer reaction products	0 ppm	
DBTDC	Not Detected	Result <= MAX 3000
12 Diethoxyethane	Not Detected	Result <= MAX 3000
Imidazolidine-2-thione	Not Detected	Result <= MAX 3000
UV-328	Not Detected	
Uvazol 237	Not Detected	
UV-350	Not Detected	
HBCDD total	Not Detected	Result <= MAX 100
Amber Dioxane Isomers	4 ppm	
Bisphenol A	Not Detected	Result <= MAX 3000
11 Dimethylpropylphenol	Not Detected	
4-tert-Amylphenol	Not Detected	
4-n-Heptylphenol	Not Detected	
Dechlorane Plus	Not Detected	
Terphenyl hydrogenated	Not Detected	
Ethylenediamine	Not Detected	
TMA	Not Detected	
4MBC	Not Detected	
3BC	Not Detected	
PTBP	Not Detected	Result <= MAX 30000
22-Bis-hydroxyphenyl-4-methylpentane	Not Detected	Result <= MAX 3000
DMAC	Not Detected	Result <= MAX 3000
MCCP	Not detected	



## Tested parts

Part description: **grey body**

Analysis: **EN71 part 9**

**According to:** Directive 2014/79/EU - TCEP, TCPP, TDCP + Directive 2014/81/EU - Bisphenol A (BPA)

**Testing conditions:** EN71 PART 9

Component	Result	Specification
TCEP	Not Detected	Result <= MAX 5
TDCPP	Not Detected	Result <= MAX 5
TCPP	Not Detected	Result <= MAX 5

Analysis: **Phthalates**

**According to:** Reach (EC) 1907/2006 - Annex XVII, entry 51-52 on phthalates content and entry 28-29-30 on CMR content. Phthalates Regulations SOR/2016-188 CANADA CONSUMER PRODUCT SAFETY ACT

**Testing conditions:** CPSC\_CH\_C1001-09.3 EPA3546 / ASTM D7823-14

Component	Result	Specification
DMP	0 ppm	Result <= MAX 1000000
DEP	0 ppm	Result <= MAX 1000000
DAP	0 ppm	Result <= MAX 1000000
DIBP	0 ppm	Result <= MAX 1000
DBP	0 ppm	Result <= MAX 1000
DMEP	0 ppm	Result <= MAX 3000
DPP	0 ppm	Result <= MAX 3000
DIPP	0 ppm	Result <= MAX 3000
nPiPP	0 ppm	Result <= MAX 3000
BBP	0 ppm	Result <= MAX 1000
DHP	0 ppm	Result <= MAX 3000
DEEP	0 ppm	Result <= MAX 1000000
DEHP	0 ppm	Result <= MAX 1000
DIH <sub>p</sub> P	0 ppm	Result <= MAX 3000
DNOP	0 ppm	Result <= MAX 1000
DINP	0 ppm	Result <= MAX 1000
DIDP	0 ppm	Result <= MAX 1000
DIH <sub>x</sub> P	0 ppm	Result <= MAX 1000000
DHNUP	0 ppm	Result <= MAX 1000000
Phthalates (Toys mouthable)	0 ppm	Result <= MAX 1000
Phthalates (Toys all ages)	0 ppm	Result <= MAX 1000

Analysis: **SCCP, Chloroparaffins**

**According to:** Regulation (EC) 2019/1021 - Persistent Organic Pollutants (POP) on SCCP.

**Testing conditions:** CPSC\_CH\_C1001-09.3 EPA3546 / ASTM D7823-14

Component	Result	Specification
Chloroparaffins total	0 ppm	Result < MAX 1500



## Tested parts

Part description: **grey body**

Analysis: **PCN**

According to: Regulation (EC) 2019/1021 - Persistent Organic Pollutants (POP) on PCN.

Testing conditions: CPSC\_CH\_C1001-09.3 EPA3546 / ASTM D7823-14

Component	Result	Specification
Halowax 1000 mono PCN	Not Detected	Result < MAX 0,1
Halowax 1000 di PCN	Not Detected	Result < MAX 0,1
Halowax 1001 tri PCN	Not Detected	Result < MAX 0,1
Halowax 1013 tetra PCN	Not Detected	Result < MAX 0,1
Halowax 1014 penta PCN	Not Detected	Result < MAX 0,1
Halowax 1014 hexa PCN	Not Detected	Result < MAX 0,1
Halowax 1051 hepta PCN	Not Detected	Result < MAX 0,1
Halowax 1051 octa PCN	Not Detected	Result < MAX 0,1

Analysis: **Flame retardants (PBDE and PBB)**

According to: Regulation (EC) 2019/1021 - Persistent Organic Pollutants (POP) on PBDE.

Testing conditions: 111/54/CDV & IEC 62321

Component	Result	Specification
PBDE Total POP	Not detected	Result <= MAX 500

Analysis: **OCP & DMF**

According to: Reach 1907/2006 Annex XVII, entry 61 on DMF

Testing conditions: CPSC\_CH\_C1001-09.3 EPA3546 / ASTM D7823-14

Component	Result	Specification
DMF (DIMETHYLFUMARATE)	Not Detected	Result < MAX 0.1
a BHC	Not Detected	Result < MAX 1.0
Hexachlorobenzene	Not Detected	Result < MAX 1.0
d BHC	Not Detected	Result < MAX 1.0
b BHC	Not Detected	Result < MAX 1.0
g BHC	Not Detected	Result < MAX 1.0
Heptachlor epoxide A	Not Detected	Result < MAX 1.0
Heptachlor epoxide B	Not Detected	Result < MAX 1.0
Heptachlor	Not Detected	Result < MAX 1.0
Aldrin	Not Detected	Result < MAX 1.0
Isodrin	Not Detected	Result < MAX 1.0
Endrin	Not Detected	Result < MAX 1.0
Endosulfan I	Not Detected	Result < MAX 1.0
Endosulfan II	Not Detected	Result < MAX 1.0
44 DDE	Not Detected	Result < MAX 1,0
Dieldrin	Not Detected	Result < MAX 1.0
44 DDD	Not Analyzed	Result < MAX 1,0
44 DDT	Not Detected	Result < MAX 1,0

## Tested parts

Part description: **grey body**

Analysis: **OCP & DMF**

According to: Reach 1907/2006 Annex XVII, entry 61 on DMF

Testing conditions: CPSC\_CH\_C1001-09.3 EPA3546 / ASTM D7823-14

Component	Result	Specification
Endosulfan Sulfate	Not Detected	Result < MAX 1,0
Methoxychlor	Not Detected	Result < MAX 1.0
Mirex	Not Detected	Result < MAX 1.0
Hexachloro-1-3-butadiene	Not Detected	Result < MAX 1.0
Toxaphene	Not Detected	Result < MAX 1.0
Kepona	Not Detected	Result < MAX 1.0

Analysis: **SVOC & CMR**

According to: Reach 1907/2006 Annex XVII, entry 28-29-30, CMR content

Testing conditions: CPSC\_CH\_C1001-09.3 EPA3546 / ASTM D7823-14

Component	Result	Specification
PENTACHLOROETHANE	Not Detected	Result < MAX 10000
2 AMINO NAPHTHALENE	Not Detected	Result < MAX 1000
DIPHENYL AMINE	Not Detected	Result < MAX 100
BENZYLALCOHOL	Not Detected	Result <= MAX 100

Analysis: **Phenols**

According to: POP EU/2019/1021 on PCP content.

Testing conditions: CPSC\_CH\_C1001-09.3 EPA3546 / ASTM D7823-14

Component	Result	Specification
Phenol / Phenylalcohol	Not Detected	Result <= MAX 10
Phenol, 2,4,6-trichloro-	Not Detected	Result <= MAX 10000
Phenol, 2-methyl-4,6-dinitro-	Not Detected	Result <= MAX 10000
Phenol, pentachloro- / PCP	Not Detected	Result <= MAX 5

Analysis: **PCB**

According to: POP COMMISSION REGULATION No EC 2019/1021

Testing conditions: CPSC\_CH\_C1001-09.3 EPA3546 / ASTM D7823-14

Component	Result	Specification
Chlorobiphenyl	Not Detected	Result <= MAX 1.0
Dichlorobiphenyl	Not Detected	Result <= MAX 1.0
Trichlorobiphenyl	Not Detected	Result <= MAX 1.0
Tetrachlorobiphenyl	Not Detected	Result <= MAX 1.0
Pentachlorobiphenyl	Not Detected	Result <= MAX 1.0
Hexachlorobiphenyl	Not Detected	Result <= MAX 1.0
Heptachlorobiphenyl	Not Detected	Result <= MAX 1.0

## Tested parts

Part description: **grey body**

Analysis: **PCB**

According to: POP COMMISSION REGULATION No EC 2019/1021

Testing conditions: CPSC\_CH\_C1001-09.3 EPA3546 / ASTM D7823-14

Component	Result	Specification
Octachlorobiphenyl	Not Detected	Result <= MAX 1.0
Decachlorobiphenyl	Not Detected	Result <= MAX 1.0

Analysis: **PAA**

According to: TSD 2009/48/EC - Reach 1907/2006 Annex XVII, entry 28-29-30, CMR content

Testing conditions: CPSC\_CH\_C1001-09.3 EPA3546 / ASTM D7823-14

Component	Result	Specification
o Aminoazotoluene	Not Detected	Result <= MAX 1000
4 Aminobiphenyl	Not Detected	Result <= MAX 1000
5 Nitro o Toluidine	Not Detected	Result <= MAX 10000
Benzidine	Not Detected	Result <= MAX 1000
4 Chloroaniline	Not Detected	Result <= MAX 1000
4 Chloro o Toluidine	Not Detected	Result <= MAX 1000
p Cresidine	Not Detected	Result <= MAX 1000
44 Diaminodiphenylmethane	Not Detected	Result <= MAX 1000
24 Diaminotoluene	Not Detected	Result <= MAX 1000
33 Dichlorobenzidine	Not Detected	Result <= MAX 1000
33 Dimethoxybenzidine	Not Detected	Result <= MAX 1000
33 Dimethylbenzidine	Not Detected	Result <= MAX 1000
Bis 3 chloro 4 aminophenyl methane	Not Detected	Result <= MAX 1000
44 Methylenedi o toluidine	Not Detected	Result <= MAX 1000
2 Naphthylamine	Not Detected	Result <= MAX 1000
44 Oxydianiline	Not Detected	Result <= MAX 1000
44 Thiodianiline	Not Detected	Result <= MAX 1000
o Toluidine	Not Detected	Result <= MAX 1000
245 Trimethylaniline	Not Detected	Result <= MAX 1000
Phenylazoaniline	Not Detected	Result <= MAX 1000
2 Aminobiphenyl	Not Detected	Result <= MAX 1000000
o Anisidine	Not Detected	Result <= MAX 1000
Azobenzene	Not Detected	Result <= MAX 1000
Aniline	Not Detected	Result <= MAX 10000

Analysis: **PAH (15 ZEK - EPA)**

According to: Geprüfte Sicherheit (GS) - AfPS Polyzyklischen Aromatischen Kohlenwasserstoffen (PAK)

Testing conditions: AfPS GS 2014:01 PAK Category 1

Component	Result	Specification
Benzo a pyrene	Not Detected	Result <= MAX 0.2



## Tested parts

Part description: **grey body**

Analysis: **PAH (15 ZEK - EPA)**

According to: Geprüfte Sicherheit (GS) - AfPS Polyzyklischen Aromatischen Kohlenwasserstoffen (PAK)

Testing conditions: AfPS GS 2014:01 PAK Category 1

Component	Result	Specification
Benzo a anthracene	Not Detected	Result <= MAX 0.2
Chrysene	Not Detected	Result <= MAX 0.2
Benzo b fluoranthene	Not Detected	Result <= MAX 0.2
Benzo k fluoranthene	Not Detected	Result <= MAX 0.2
Dibenz ah anthracene	Not Detected	Result <= MAX 0.2
Benzo j fluoranthene	Not Detected	Result <= MAX 0.2
Benzo e pyrene	Not Detected	Result <= MAX 0.2
Indeno 123cd pyrene	Not Detected	Result <= MAX 0.2
Benzo ghi perylene	Not Detected	Result <= MAX 0.2
Acenaphthylene	Not Detected	Result <= MAX 1000000
Acenaphthene	Not Detected	Result <= MAX 1000000
Fluorene	Not Detected	Result <= MAX 1000000
Phenanthrene	Not Detected	Result <= MAX 1
Anthracene	Not Detected	Result <= MAX 1
Fluoranthene	Not Detected	Result <= MAX 1
Pyrene	Not Detected	Result <= MAX 1
Naphthalene	Not Detected	Result <= MAX 1
sum of 4 PAH	Not detected	Result <= MAX 1
sum of 15 PAH	Not detected	Result <= MAX 1
Anthracene oils and pastes	Not detected	Result <= MAX 1000
Coal tar	Not detected	Result <= MAX 1000

Analysis: **Reach restrictions annex 17**

According to: Reach 1907/2006 Annex XVII, entry 5-28-29-30, CMR content

Testing conditions: CPSC\_CH\_C1001-09.3 EPA3546 / ASTM D7823-14

Component	Result	Specification
Benzene	Not Detected	Result <= MAX 5,0
DEGME	Not Detected	Result <= MAX 30000
4-Nitrobiphenyl	Not Detected	Result <= MAX 1000
1,4-dichloro-butene trans	Not Analyzed	Result <= MAX 1000
1,4-dichloro-butene cis	Not Analyzed	Result <= MAX 1000
N,N-dimethylhydrazine	Not Detected	Result <= MAX 1000
dimethylcarbamoyl chloride	Not Analyzed	Result <= MAX 1000

Analysis: **Heavy metals content**

According to: Reach (EC) 1907/2006 - Annex XVII entry 20-21 on Organostannic, 23 on Cadmium, 62 on Mercury, 63 on Lead & Ban of products containing lead - BEK 856.

## Tested parts

Part description: **grey body**

Analysis: **Heavy metals content**

**According to:** Reach (EC) 1907/2006 - Annex XVII entry 20-21 on Organostannic, 23 on Cadmium, 62 on Mercury, 63 on Lead & Ban of products containing lead - BEK 856.

**Testing conditions:** 111/54/CDV & IEC 62321 & NPR-CR 10299

Component	Result	Specification
Cadmium	0 ppm	Result <= MAX 100
Lead	0 ppm	Result <= MAX 100
Mercury	0 ppm	Result <= MAX 100
Tin	5 ppm	Result <= MAX 1000000
Chlorine	0 ppm	Result <= MAX 1000000

Analysis: **SVHC**

**According to:** Reach 1907/2006 art 33-57 on SVHC

**Testing conditions:** CPSC\_CH\_C1001-09.3 EPA3546 / ASTM D7823-14

Component	Result	Specification
2 Methoxy ethanol	Not Detected	Result <= MAX 3000
Methoxyacetic acid	Not Detected	Result <= MAX 3000
12 Dichloroethane	Not Detected	Result <= MAX 1000
N methylacetamide	Not Detected	Result <= MAX 3000
NN dimethylformamide	Not Detected	Result <= MAX 3000
Acrylamide	Not Detected	Result <= MAX 1000
2-ethoxyethyl acetate	Not Detected	Result <= MAX 3000
1 Bromopropane	Not Detected	Result <= MAX 3000
123 Trichloropropane	Not Detected	Result <= MAX 1000
Bis(2methoxyethyl)ether	Not Detected	Result <= MAX 3000
Trichloro ethene	Not Detected	Result <= MAX 1000
2 Ethoxy ethanol	Not Detected	Result <= MAX 3000
TBTO	Not Detected	
TCEP	Not Detected	Result <= MAX 3000
DNT	Not Detected	Result <= MAX 1000
DINOSEB	Not Detected	Result <= MAX 3000
4 tert Octylphenol	Not Detected	
Nonyl Phenol	Not Detected	Result <= MAX 100
Musk Xylene	Not Detected	Result <= MAX 10000
o Toluidine	Not Detected	Result <= MAX 1000
44 MDA	Not Detected	Result <= MAX 1000
o Anisidine	Not Detected	Result <= MAX 1000
4 Aminobiphenyl	Not Detected	Result <= MAX 1000
p Cresidine	Not Detected	Result <= MAX 1000
24 Diaminotoluene	Not Detected	Result <= MAX 1000
44 Methylenedi o toluidine	Not Detected	Result <= MAX 1000
44 Oxydianiline	Not Detected	Result <= MAX 1000



## Tested parts

Part description: **grey body**

Analysis: **SVHC**

According to: Reach 1907/2006 art 33-57 on SVHC

Testing conditions: CPSC\_CH\_C1001-09.3 EPA3546 / ASTM D7823-14

Component	Result	Specification
12 Cyclohexanedicarboxylic anhydride	Not Detected	
Hexahydro-4-methylphtalic anhydride	Not Detected	
Phenolphthalein	Not Detected	Result <= MAX 1000
Basic Violet 3	Not Detected	Result <= MAX 10000
Victoria Blue 26	Not Detected	Result <= MAX 1000
TEGDME	Not Detected	Result <= MAX 3000
EGDME	Not Detected	Result <= MAX 3000
Michlers ketone	Not Detected	Result <= MAX 1000
Michlers base	Not Detected	Result <= MAX 1000
TGIC	Not Detected	Result <= MAX 1000
B-TGIC	Not Detected	Result <= MAX 1000
Direct red 28	Not Detected	Result <= MAX 1000
Direct black 38	Not Detected	Result <= MAX 1000
Trixylyl phosphate	Not Detected	Result <= MAX 3000
Formaldehyde oligomer reaction products	0 ppm	
DBTDC	Not Detected	Result <= MAX 3000
12 Diethoxyethane	Not Detected	Result <= MAX 3000
Imidazolidine-2-thione	Not Detected	Result <= MAX 3000
UV-328	Not Detected	
Uvazol 237	0 ppm	
UV-350	Not Detected	
HBCDD total	Not Detected	Result <= MAX 100
Amber Dioxade Isomers	Not Detected	
Bisphenol A	Not Detected	Result <= MAX 3000
11 Dimethylpropylphenol	Not Detected	
4-tert-Amylphenol	Not Detected	
4-n-Heptylphenol	Not Detected	
Dechlorane Plus	Not Detected	
Terphenyl hydrogenated	Not Detected	
Ethylenediamine	Not Detected	
TMA	Not Detected	
4MBC	Not Detected	
3BC	Not Detected	
PTBP	Not Detected	Result <= MAX 30000
22-Bis-hydroxyphenyl-4-methylpentane	Not Detected	Result <= MAX 3000
DMAC	Not Detected	Result <= MAX 3000
MCCP	Not detected	



## Tested parts

Part description: **transparent body**

Analysis: **EN71 part 9**

**According to:** Directive 2014/79/EU - TCEP, TCPP, TDCP + Directive 2014/81/EU - Bisphenol A (BPA)

**Testing conditions:** EN71 PART 9

Component	Result	Specification
TCEP	Not Detected	Result <= MAX 5
TDCPP	Not Detected	Result <= MAX 5
TCPP	Not Detected	Result <= MAX 5

Analysis: **Phthalates**

**According to:** Reach (EC) 1907/2006 - Annex XVII, entry 51-52 on phthalates content and entry 28-29-30 on CMR content. Phthalates Regulations SOR/2016-188 CANADA CONSUMER PRODUCT SAFETY ACT

**Testing conditions:** CPSC\_CH\_C1001-09.3 EPA3546 / ASTM D7823-14

Component	Result	Specification
DMP	0 ppm	Result <= MAX 1000000
DEP	0 ppm	Result <= MAX 1000000
DAP	0 ppm	Result <= MAX 1000000
DIBP	0 ppm	Result <= MAX 1000
DBP	0 ppm	Result <= MAX 1000
DMEP	0 ppm	Result <= MAX 3000
DPP	0 ppm	Result <= MAX 3000
DIPP	0 ppm	Result <= MAX 3000
nPiPP	0 ppm	Result <= MAX 3000
BBP	0 ppm	Result <= MAX 1000
DHP	0 ppm	Result <= MAX 3000
DEEP	0 ppm	Result <= MAX 1000000
DEHP	0 ppm	Result <= MAX 1000
DIH <sub>p</sub> P	0 ppm	Result <= MAX 3000
DNOP	0 ppm	Result <= MAX 1000
DINP	0 ppm	Result <= MAX 1000
DIDP	0 ppm	Result <= MAX 1000
DIH <sub>x</sub> P	0 ppm	Result <= MAX 1000000
DHNUP	0 ppm	Result <= MAX 1000000
Phthalates (Toys mouthable)	0 ppm	Result <= MAX 1000
Phthalates (Toys all ages)	0 ppm	Result <= MAX 1000

Analysis: **SCCP, Chloroparaffins**

**According to:** Regulation (EC) 2019/1021 - Persistent Organic Pollutants (POP) on SCCP.

**Testing conditions:** CPSC\_CH\_C1001-09.3 EPA3546 / ASTM D7823-14

Component	Result	Specification
Chloroparaffins total	0 ppm	Result < MAX 1500





## Tested parts

Part description: **transparent body**

Analysis: **PCN**

According to: Regulation (EC) 2019/1021 - Persistent Organic Pollutants (POP) on PCN.

Testing conditions: CPSC\_CH\_C1001-09.3 EPA3546 / ASTM D7823-14

Component	Result	Specification
Halowax 1000 mono PCN	Not Detected	Result < MAX 0,1
Halowax 1000 di PCN	Not Detected	Result < MAX 0,1
Halowax 1001 tri PCN	Not Detected	Result < MAX 0,1
Halowax 1013 tetra PCN	Not Detected	Result < MAX 0,1
Halowax 1014 penta PCN	Not Detected	Result < MAX 0,1
Halowax 1014 hexa PCN	Not Detected	Result < MAX 0,1
Halowax 1051 hepta PCN	Not Detected	Result < MAX 0,1
Halowax 1051 octa PCN	Not Detected	Result < MAX 0,1

Analysis: **Flame retardants (PBDE and PBB)**

According to: Regulation (EC) 2019/1021 - Persistent Organic Pollutants (POP) on PBDE.

Testing conditions: 111/54/CDV & IEC 62321

Component	Result	Specification
PBDE Total POP	Not detected	Result <= MAX 500

Analysis: **OCP & DMF**

According to: Reach 1907/2006 Annex XVII, entry 61 on DMF

Testing conditions: CPSC\_CH\_C1001-09.3 EPA3546 / ASTM D7823-14

Component	Result	Specification
DMF (DIMETHYLFUMARATE)	Not Detected	Result < MAX 0.1
a BHC	Not Detected	Result < MAX 1.0
Hexachlorobenzene	Not Detected	Result < MAX 1.0
d BHC	Not Detected	Result < MAX 1.0
b BHC	Not Detected	Result < MAX 1.0
g BHC	Not Detected	Result < MAX 1.0
Heptachlor epoxide A	Not Detected	Result < MAX 1.0
Heptachlor epoxide B	Not Detected	Result < MAX 1.0
Heptachlor	Not Detected	Result < MAX 1.0
Aldrin	Not Detected	Result < MAX 1.0
Isodrin	Not Detected	Result < MAX 1.0
Endrin	Not Detected	Result < MAX 1.0
Endosulfan I	Not Detected	Result < MAX 1.0
Endosulfan II	Not Detected	Result < MAX 1.0
44 DDE	Not Detected	Result < MAX 1,0
Dieldrin	Not Detected	Result < MAX 1.0
44 DDD	Not Analyzed	Result < MAX 1,0
44 DDT	Not Detected	Result < MAX 1,0

## Tested parts

Part description: **transparent body**

Analysis: **OCP & DMF**

According to: Reach 1907/2006 Annex XVII, entry 61 on DMF

Testing conditions: CPSC\_CH\_C1001-09.3 EPA3546 / ASTM D7823-14

Component	Result	Specification
Endosulfan Sulfate	Not Detected	Result < MAX 1,0
Methoxychlor	Not Detected	Result < MAX 1.0
Mirex	Not Detected	Result < MAX 1.0
Hexachloro-1-3-butadiene	Not Detected	Result < MAX 1.0
Toxaphene	Not Detected	Result < MAX 1.0
Kepone	Not Detected	Result < MAX 1.0

Analysis: **SVOC & CMR**

According to: Reach 1907/2006 Annex XVII, entry 28-29-30, CMR content

Testing conditions: CPSC\_CH\_C1001-09.3 EPA3546 / ASTM D7823-14

Component	Result	Specification
PENTACHLOROETHANE	Not Detected	Result < MAX 10000
2 AMINO NAPHTHALENE	Not Detected	Result < MAX 1000
DIPHENYL AMINE	Not Detected	Result < MAX 100
BENZYLALCOHOL	Not Detected	Result <= MAX 100

Analysis: **Phenols**

According to: POP EU/2019/1021 on PCP content.

Testing conditions: CPSC\_CH\_C1001-09.3 EPA3546 / ASTM D7823-14

Component	Result	Specification
Phenol / Phenylalcohol	Not Detected	Result <= MAX 10
Phenol, 2,4,6-trichloro-	Not Detected	Result <= MAX 10000
Phenol, 2-methyl-4,6-dinitro-	Not Detected	Result <= MAX 10000
Phenol, pentachloro- / PCP	Not Detected	Result <= MAX 5

Analysis: **PCB**

According to: POP COMMISSION REGULATION No EC 2019/1021

Testing conditions: CPSC\_CH\_C1001-09.3 EPA3546 / ASTM D7823-14

Component	Result	Specification
Chlorobiphenyl	Not Detected	Result <= MAX 1.0
Dichlorobiphenyl	Not Detected	Result <= MAX 1.0
Trichlorobiphenyl	Not Detected	Result <= MAX 1.0
Tetrachlorobiphenyl	Not Detected	Result <= MAX 1.0
Pentachlorobiphenyl	Not Detected	Result <= MAX 1.0
Hexachlorobiphenyl	Not Detected	Result <= MAX 1.0
Heptachlorobiphenyl	Not Detected	Result <= MAX 1.0

## Tested parts

Part description: **transparent body**

Analysis: **PCB**

According to: POP COMMISSION REGULATION No EC 2019/1021

Testing conditions: CPSC\_CH\_C1001-09.3 EPA3546 / ASTM D7823-14

Component	Result	Specification
Octachlorobiphenyl	Not Detected	Result <= MAX 1.0
Decachlorobiphenyl	Not Detected	Result <= MAX 1.0

Analysis: **PAA**

According to: TSD 2009/48/EC - Reach 1907/2006 Annex XVII, entry 28-29-30, CMR content

Testing conditions: CPSC\_CH\_C1001-09.3 EPA3546 / ASTM D7823-14

Component	Result	Specification
o Aminoazotoluene	Not Detected	Result <= MAX 1000
4 Aminobiphenyl	Not Detected	Result <= MAX 1000
5 Nitro o Toluidine	Not Detected	Result <= MAX 10000
Benzidine	Not Detected	Result <= MAX 1000
4 Chloroaniline	Not Detected	Result <= MAX 1000
4 Chloro o Toluidine	Not Detected	Result <= MAX 1000
p Cresidine	Not Detected	Result <= MAX 1000
44 Diaminodiphenylmethane	Not Detected	Result <= MAX 1000
24 Diaminotoluene	Not Detected	Result <= MAX 1000
33 Dichlorobenzidine	Not Detected	Result <= MAX 1000
33 Dimethoxybenzidine	Not Detected	Result <= MAX 1000
33 Dimethylbenzidine	Not Detected	Result <= MAX 1000
Bis 3 chloro 4 aminophenyl methane	Not Detected	Result <= MAX 1000
44 Methylenedi o toluidine	Not Detected	Result <= MAX 1000
2 Naphthylamine	Not Detected	Result <= MAX 1000
44 Oxydianiline	Not Detected	Result <= MAX 1000
44 Thiodianiline	Not Detected	Result <= MAX 1000
o Toluidine	Not Detected	Result <= MAX 1000
245 Trimethylaniline	Not Detected	Result <= MAX 1000
Phenylazoaniline	Not Detected	Result <= MAX 1000
2 Aminobiphenyl	Not Detected	Result <= MAX 1000000
o Anisidine	Not Detected	Result <= MAX 1000
Azobenzene	Not Detected	Result <= MAX 1000
Aniline	Not Detected	Result <= MAX 10000

Analysis: **PAH (15 ZEK - EPA)**

According to: Geprüfte Sicherheit (GS) - AfPS Polyzyklischen Aromatischen Kohlenwasserstoffen (PAK)

Testing conditions: AfPS GS 2014:01 PAK Category 1

Component	Result	Specification
Benzo a pyrene	Not Detected	Result <= MAX 0.2



## Tested parts

Part description: **transparent body**

Analysis: **PAH (15 ZEK - EPA)**

According to: Geprüfte Sicherheit (GS) - AfPS Polyzyklischen Aromatischen Kohlenwasserstoffen (PAK)

Testing conditions: AfPS GS 2014:01 PAK Category 1

Component	Result	Specification
Benzo a anthracene	Not Detected	Result <= MAX 0.2
Chrysene	Not Detected	Result <= MAX 0.2
Benzo b fluoranthene	Not Detected	Result <= MAX 0.2
Benzo k fluoranthene	Not Detected	Result <= MAX 0.2
Dibenz ah anthracene	Not Detected	Result <= MAX 0.2
Benzo j fluoranthene	Not Detected	Result <= MAX 0.2
Benzo e pyrene	Not Detected	Result <= MAX 0.2
Indeno 123cd pyrene	Not Detected	Result <= MAX 0.2
Benzo ghi perylene	Not Detected	Result <= MAX 0.2
Acenaphthylene	Not Detected	Result <= MAX 1000000
Acenaphthene	Not Detected	Result <= MAX 1000000
Fluorene	Not Detected	Result <= MAX 1000000
Phenanthrene	Not Detected	Result <= MAX 1
Anthracene	Not Detected	Result <= MAX 1
Fluoranthene	Not Detected	Result <= MAX 1
Pyrene	Not Detected	Result <= MAX 1
Naphthalene	Not Detected	Result <= MAX 1
sum of 4 PAH	Not detected	Result <= MAX 1
sum of 15 PAH	Not detected	Result <= MAX 1
Anthracene oils and pastes	Not detected	Result <= MAX 1000
Coal tar	Not detected	Result <= MAX 1000

Analysis: **Reach restrictions annex 17**

According to: Reach 1907/2006 Annex XVII, entry 5-28-29-30, CMR content

Testing conditions: CPSC\_CH\_C1001-09.3 EPA3546 / ASTM D7823-14

Component	Result	Specification
Benzene	Not Detected	Result <= MAX 5,0
DEGME	Not Detected	Result <= MAX 30000
4-Nitrobiphenyl	Not Detected	Result <= MAX 1000
1,4-dichloro-butene trans	Not Analyzed	Result <= MAX 1000
1,4-dichloro-butene cis	Not Analyzed	Result <= MAX 1000
N,N-dimethylhydrazine	Not Detected	Result <= MAX 1000
dimethylcarbamoyl chloride	Not Analyzed	Result <= MAX 1000

Analysis: **Heavy metals content**

According to: Reach (EC) 1907/2006 - Annex XVII entry 20-21 on Organostannic, 23 on Cadmium, 62 on Mercury, 63 on Lead & Ban of products containing lead - BEK 856.

## Tested parts

Part description: **transparent body**

Analysis: **Heavy metals content**

**According to:** Reach (EC) 1907/2006 - Annex XVII entry 20-21 on Organostannic, 23 on Cadmium, 62 on Mercury, 63 on Lead & Ban of products containing lead - BEK 856.

**Testing conditions:** 111/54/CDV & IEC 62321 & NPR-CR 10299

Component	Result	Specification
Cadmium	0 ppm	Result <= MAX 100
Lead	0 ppm	Result <= MAX 100
Mercury	0 ppm	Result <= MAX 100
Tin	5 ppm	Result <= MAX 1000000
Chlorine	0 ppm	Result <= MAX 1000000

Analysis: **SVHC**

**According to:** Reach 1907/2006 art 33-57 on SVHC

**Testing conditions:** CPSC\_CH\_C1001-09.3 EPA3546 / ASTM D7823-14

Component	Result	Specification
2 Methoxy ethanol	Not Detected	Result <= MAX 3000
Methoxyacetic acid	Not Detected	Result <= MAX 3000
1,2 Dichloroethane	Not Detected	Result <= MAX 1000
N methylacetamide	Not Detected	Result <= MAX 3000
NN dimethylformamide	Not Detected	Result <= MAX 3000
Acrylamide	Not Detected	Result <= MAX 1000
2-ethoxyethyl acetate	Not Detected	Result <= MAX 3000
1 Bromopropane	Not Detected	Result <= MAX 3000
1,2,3 Trichloropropane	Not Detected	Result <= MAX 1000
Bis(2methoxyethyl)ether	Not Detected	Result <= MAX 3000
Trichloro ethene	Not Detected	Result <= MAX 1000
2 Ethoxy ethanol	Not Detected	Result <= MAX 3000
TBTO	Not Detected	
TCEP	Not Detected	Result <= MAX 3000
DNT	Not Detected	Result <= MAX 1000
DINOSEB	Not Detected	Result <= MAX 3000
4 tert Octylphenol	Not Detected	
Nonyl Phenol	Not Detected	Result <= MAX 100
Musk Xylene	Not Detected	Result <= MAX 10000
o Toluidine	Not Detected	Result <= MAX 1000
4,4 MDA	Not Detected	Result <= MAX 1000
o Anisidine	Not Detected	Result <= MAX 1000
4 Aminobiphenyl	Not Detected	Result <= MAX 1000
p Cresidine	Not Detected	Result <= MAX 1000
2,4 Diaminotoluene	Not Detected	Result <= MAX 1000
4,4 Methylenedi o toluidine	Not Detected	Result <= MAX 1000
4,4 Oxydianiline	Not Detected	Result <= MAX 1000

## Tested parts

Part description: **transparent body**

Analysis: **SVHC**

According to: Reach 1907/2006 art 33-57 on SVHC

Testing conditions: CPSC\_CH\_C1001-09.3 EPA3546 / ASTM D7823-14

Component	Result	Specification
12 Cyclohexanedicarboxylic anhydride	Not Detected	
Hexahydro-4-methylphtalic anhydride	Not Detected	
Phenolphthalein	Not Detected	Result <= MAX 1000
Basic Violet 3	Not Detected	Result <= MAX 10000
Victoria Blue 26	Not Detected	Result <= MAX 1000
TEGDME	Not Detected	Result <= MAX 3000
EGDME	Not Detected	Result <= MAX 3000
Michlers ketone	Not Detected	Result <= MAX 1000
Michlers base	Not Detected	Result <= MAX 1000
TGIC	Not Detected	Result <= MAX 1000
B-TGIC	Not Detected	Result <= MAX 1000
Direct red 28	Not Detected	Result <= MAX 1000
Direct black 38	Not Detected	Result <= MAX 1000
Trixylyl phosphate	Not Detected	Result <= MAX 3000
Formaldehyde oligomer reaction products	0 ppm	
DBTDC	Not Detected	Result <= MAX 3000
12 Diethoxyethane	Not Detected	Result <= MAX 3000
Imidazolidine-2-thione	Not Detected	Result <= MAX 3000
UV-328	Not Detected	
Uvazol 237	0 ppm	
UV-350	Not Detected	
HBCDD total	Not Detected	Result <= MAX 100
Amber Dioxade Isomers	12 ppm	
Bisphenol A	Not Detected	Result <= MAX 3000
11 Dimethylpropylphenol	Not Detected	
4-tert-Amylphenol	Not Detected	
4-n-Heptylphenol	Not Detected	
Dechlorane Plus	Not Detected	
Terphenyl hydrogenated	Not Detected	
Ethylenediamine	Not Detected	
TMA	Not Detected	
4MBC	Not Detected	
3BC	Not Detected	
PTBP	Not Detected	Result <= MAX 30000
22-Bis-hydroxyphenyl-4-methylpentane	Not Detected	Result <= MAX 3000
DMAC	Not Detected	Result <= MAX 3000
MCCP	Not detected	

## Tested parts

Part description: **white inner part**

Analysis: **Heavy metals content**

According to: Directive 2011/65/EU - ROHS 2

Testing conditions: 111/54/CDV & IEC 62321

Component	Result	Specification
Cadmium	0 ppm	Result <= MAX 100
Lead	0 ppm	Result <= MAX 1000
Chromium	0 ppm	Result <= MAX 1000
Mercury	0 ppm	Result <= MAX 1000
Chlorine	0 ppm	Result <= MAX 1000000

Analysis: **Flame retardants (PBDE and PBB)**

According to: Regulation (EC) 2019/1021 - Persistent Organic Pollutants (POP) on PBDE.

Testing conditions: 111/54/CDV & IEC 62321

Component	Result	Specification
PBDE Total	Not detected	Result < MAX 1000
MonoBDE	Not Detected	Result <= MAX 1000
DiBDE	Not Detected	Result <= MAX 1000
TriBDE	Not Detected	Result <= MAX 1000
TetraBDE	Not Detected	Result <= MAX 1000
PentaBDE	Not Detected	Result <= MAX 1000
HexaBDE	Not Detected	Result <= MAX 1000
HeptaBDE	Not Detected	Result <= MAX 1000
OctaBDE	Not Detected	Result <= MAX 1000
NonaBDE	Not Detected	Result <= MAX 1000
DecaBDE	Not Detected	Result <= MAX 1000
MONOBROMOBIPHENYL	Not Detected	Result < MAX 1000
DIBROMOBIPHENYL	Not Detected	Result < MAX 1000
TRIBROMOBIPHENYL	Not Detected	Result < MAX 1000
TETRABROMOBIPHENYL	Not Detected	Result < MAX 1000
PENTABROMOBIPHENYL	Not Detected	Result < MAX 1000
HEXABROMOBIPHENYL	Not Detected	Result < MAX 1000
HEPTABROMOBIPHENYL	Not Detected	Result < MAX 1000
OCTABROMOBIPHENYL	Not Detected	Result < MAX 1000
NONABROMOBIPHENYL	Not Detected	Result < MAX 1000
DECABROMOBIPHENYL	Not Detected	Result < MAX 1000
PBB Total	Not detected	Result <= MAX 1000

Analysis: **Phthalates**

According to: Directive (EU) 2015/863 on Phthalates

Testing conditions: CPSC\_CH\_C1001-09.3 EPA3546 / ASTM D7823-14

Component	Result	Specification
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## Tested parts

Part description: **white inner part**

Analysis: **Phthalates**

According to: Directive (EU) 2015/863 on Phthalates

Testing conditions: CPSC\_CH\_C1001-09.3 EPA3546 / ASTM D7823-14

Component	Result	Specification
DMP	0 ppm	Result <= MAX 1000000
DEP	0 ppm	Result <= MAX 1000000
DAP	0 ppm	Result <= MAX 1000000
DIBP	0 ppm	Result <= MAX 1000
DBP	0 ppm	Result <= MAX 1000
DMEP	0 ppm	Result <= MAX 1000000
DPP	0 ppm	Result <= MAX 1000000
DIPP	0 ppm	Result <= MAX 1000000
nPiPP	0 ppm	Result <= MAX 1000000
BBP	0 ppm	Result <= MAX 1000
DHP	0 ppm	Result <= MAX 1000000
DEEP	0 ppm	Result <= MAX 1000000
DEHP	0 ppm	Result <= MAX 1000
DIHxP	0 ppm	Result <= MAX 1000000
DNOP	0 ppm	Result <= MAX 1000000
DINP	0 ppm	Result <= MAX 1000000
DIDP	0 ppm	Result <= MAX 1000000
DIHxP	0 ppm	Result <= MAX 1000000
DHNUP	0 ppm	Result <= MAX 1000000
Sum of four phthalates	0 ppm	Not Equal to 1000

Analysis: **PCN**

According to: Regulation (EC) 2019/1021 - Persistent Organic Pollutants (POP) on PCN.

Testing conditions: CPSC\_CH\_C1001-09.3 EPA3546 / ASTM D7823-14

Component	Result	Specification
Halowax 1000 mono PCN	Not Detected	Result < MAX 1000000
Halowax 1000 di PCN	Not Detected	Result < MAX 1000000
Halowax 1001 tri PCN	Not Detected	Result < MAX 1000000
Halowax 1013 tetra PCN	Not Detected	Result < MAX 1000000
Halowax 1014 penta PCN	Not Detected	Result < MAX 1000000
Halowax 1014 hexa PCN	Not Detected	Result < MAX 1000000
Halowax 1051 hepta PCN	Not Detected	Result < MAX 1000000
Halowax 1051 octa PCN	Not Detected	Result < MAX 1000000

Analysis: **SCCP, Chloroparaffins**

According to: Regulation (EC) 2019/1021 - Persistent Organic Pollutants (POP) on SCCP.





## Tested parts

Part description: **white inner part**

Analysis: **SCCP, Chloroparaffins**

According to: Regulation (EC) 2019/1021 - Persistent Organic Pollutants (POP) on SCCP.

Testing conditions: CPSC\_CH\_C1001-09.3 EPA3546 / ASTM D7823-14

Component	Result	Specification
Chloroparaffins total	0 ppm	Result < MAX 1500

Analysis: **PAH (15 ZEK - EPA)**

According to: Geprüfte Sicherheit (GS) - AfPS Polyzyklischen Aromatischen Kohlenwasserstoffen (PAK)

Testing conditions: AfPS GS 2014:01 PAK Category 3

Component	Result	Specification
Benzo a pyrene	Not Detected	Result <= MAX 1000000
Benzo a anthracene	Not Detected	Result <= MAX 1000000
Chrysene	Not Detected	Result <= MAX 1000000
Benzo b fluoranthene	Not Detected	Result <= MAX 1000000
Benzo k fluoranthene	Not Detected	Result <= MAX 1000000
Dibenz ah anthracene	Not Detected	Result <= MAX 1000000
Benzo j fluoranthene	Not Detected	Result <= MAX 1000000
Benzo e pyrene	Not Detected	Result <= MAX 1000000
Indeno 123cd pyrene	Not Detected	Result <= MAX 1000000
Benzo ghi perylene	Not Detected	Result <= MAX 1000000
Acenaphthylene	Not Detected	Result <= MAX 1000000
Acenaphthene	Not Detected	Result <= MAX 1000000
Fluorene	Not Detected	Result <= MAX 1000000
Phenanthrene	Not Detected	Result <= MAX 1000000
Anthracene	Not Detected	Result <= MAX 1000000
Fluoranthene	Not Detected	Result <= MAX 1000000
Pyrene	Not Detected	Result <= MAX 1000000
Naphthalene	Not Detected	Result <= MAX 1000000
sum of 4 PAH	Not detected	Result <= MAX 1000000
sum of 15 PAH	Not detected	Result <= MAX 1000000
Anthracene oils and pastes	Not detected	Result <= MAX 1000000
Coal tar	Not detected	Result <= MAX 1000000

Analysis: **OCP & DMF**

According to: Reach 1907/2006 Annex XVII, entry 61 on DMF

Testing conditions: CPSC\_CH\_C1001-09.3 EPA3546 / ASTM D7823-14

Component	Result	Specification
DMF (DIMETHYLFUMARATE)	Not Detected	Result < MAX 1000000
a BHC	Not Detected	Result < MAX 1000000
Hexachlorobenzene	Not Detected	Result < MAX 1000000

## Tested parts

Part description: **white inner part**

Analysis: **OCP & DMF**

According to: Reach 1907/2006 Annex XVII, entry 61 on DMF

Testing conditions: CPSC\_CH\_C1001-09.3 EPA3546 / ASTM D7823-14

Component	Result	Specification
d BHC	Not Detected	Result < MAX 1000000
b BHC	Not Detected	Result < MAX 1000000
g BHC	Not Detected	Result < MAX 1000000
Heptachlor epoxide A	Not Detected	Result < MAX 1000000
Heptachlor epoxide B	Not Detected	Result < MAX 1000000
Heptachlor	Not Detected	Result < MAX 1000000
Aldrin	Not Detected	Result < MAX 1000000
Isodrin	Not Detected	Result < MAX 1000000
Endrin	Not Detected	Result < MAX 1000000
Endosulfan I	Not Detected	Result < MAX 1000000
Endosulfan II	Not Detected	Result < MAX 1000000
44 DDE	Not Detected	Result < MAX 1000000
Dieldrin	Not Detected	Result < MAX 1000000
44 DDD	Not Analyzed	Result < MAX 1000000
44 DDT	Not Detected	Result < MAX 1000000
Endosulfan Sulfate	Not Detected	Result < MAX 1000000
Methoxychlor	Not Detected	Result < MAX 1000000
Mirex	Not Detected	Result < MAX 1000000
Hexachloro-1-3-butadiene	Not Detected	Result < MAX 1000000
Toxaphene	Not Detected	Result < MAX 1000000
Kepone	Not Detected	Result < MAX 1000000

Analysis: **PCB**

According to: POP COMMISSION REGULATION No EC 2019/1021

Testing conditions: CPSC\_CH\_C1001-09.3 EPA3546 / ASTM D7823-14

Component	Result	Specification
Chlorobiphenyl	Not Detected	Result <= MAX 1000000
Dichlorobiphenyl	Not Detected	Result <= MAX 1000000
Trichlorobiphenyl	Not Detected	Result <= MAX 1000000
Tetrachlorobiphenyl	Not Detected	Result <= MAX 1000000
Pentachlorobiphenyl	Not Detected	Result <= MAX 1000000
Hexachlorobiphenyl	Not Detected	Result <= MAX 1000000
Heptachlorobiphenyl	Not Detected	Result <= MAX 1000000
Octachlorobiphenyl	Not Detected	Result <= MAX 1000000
Decachlorobiphenyl	Not Detected	Result <= MAX 1000000

Analysis: **Phenols**



## Tested parts

Part description: **white inner part**

Analysis: **Phenols**

According to: POP EU/2019/1021 on PCP content.

Testing conditions: CPSC\_CH\_C1001-09.3 EPA3546 / ASTM D7823-14

Component	Result	Specification
Octyl phenol	Not Detected	Result <= MAX 1000000
Nonyl phenol	Not Detected	Result <= MAX 1000000
Phenol, pentachloro- / PCP	Not Detected	Result <= MAX 5

Analysis: **SVHC**

According to: Reach 1907/2006 art 33-57 on SVHC

Testing conditions: CPSC\_CH\_C1001-09.3 EPA3546 / ASTM D7823-14

Component	Result	Specification
2 Methoxy ethanol	Not Detected	Result <= MAX 1000000
Methoxyacetic acid	Not Detected	Result <= MAX 1000000
12 Dichloroethane	Not Detected	Result <= MAX 1000000
N methylacetamide	Not Detected	Result <= MAX 1000000
NN dimethylformamide	Not Detected	Result <= MAX 1000000
Acrylamide	Not Detected	Result <= MAX 1000000
2-ethoxyethyl acetate	Not Detected	Result <= MAX 1000000
1 Bromopropane	Not Detected	Result <= MAX 1000000
123 Trichloropropane	Not Detected	Result <= MAX 1000000
Bis(2methoxyethyl)ether	Not Detected	Result <= MAX 1000000
Trichloro ethene	Not Detected	Result <= MAX 1000000
2 Ethoxy ethanol	Not Detected	Result <= MAX 1000000
TBTO	Not Detected	Result <= MAX 1000000
TCEP	Not Detected	Result <= MAX 1000000
DNT	Not Detected	Result <= MAX 1000000
DINOSEB	Not Detected	Result <= MAX 1000000
4 tert Octylphenol	Not Detected	Result <= MAX 1000000
Nonyl Phenol	Not Detected	Result <= MAX 1000000
Musk Xylene	Not Detected	Result <= MAX 1000000
o Toluidine	Not Detected	Result <= MAX 1000000
44 MDA	Not Detected	Result <= MAX 1000000
4 Aminobiphenyl	Not Detected	Result <= MAX 1000000
p Cresidine	Not Detected	Result <= MAX 1000000
24 Diaminotoluene	Not Detected	Result <= MAX 1000000
44 Methylenedi o toluidine	Not Detected	Result <= MAX 1000000
44 Oxydianiline	Not Detected	Result <= MAX 1000000
12 Cyclohexanedicarboic anhydride	Not Detected	Result <= MAX 1000000
Hexahydro-4-methylphtalic anhydride	Not Detected	Result <= MAX 1000000
Phenolphtalein	Not Detected	Result <= MAX 1000000

## Tested parts

Part description: **white inner part**

Analysis: **SVHC**

According to: Reach 1907/2006 art 33-57 on SVHC

Testing conditions: CPSC\_CH\_C1001-09.3 EPA3546 / ASTM D7823-14

Component	Result	Specification
Basic Violet 3	Not Detected	Result <= MAX 1000000
Victoria Blue 26	Not Detected	Result <= MAX 1000000
TEGDME	Not Detected	Result <= MAX 1000000
EGDME	Not Detected	Result <= MAX 1000000
Michlers ketone	Not Detected	Result <= MAX 1000000
Michlers base	Not Detected	Result <= MAX 1000000
TGIC	Not Detected	Result <= MAX 1000000
B-TGIC	Not Detected	Result <= MAX 1000000
Direct red 28	Not Detected	Result <= MAX 1000000
Direct black 38	Not Detected	Result <= MAX 1000000
Trixylyl phosphate	Not Detected	Result <= MAX 1000000
Formaldehyde oligomer reaction products	0 ppm	Result <= MAX 1000000
DBTDC	Not Detected	Result <= MAX 1000000
12 Diethoxyethane	Not Detected	Result <= MAX 1000000
Imidazolidine-2-thione	Not Detected	Result <= MAX 1000000
UV-328	Not Detected	Result <= MAX 1000000
Uvazol 237	0 ppm	Result <= MAX 1000000
UV-350	Not Detected	Result <= MAX 1000000
HBCDD total	Not Detected	Result <= MAX 1000000
Amber Dioxade Isomers	Not Detected	Result <= MAX 1000000
Bisphenol A	Not Detected	Result <= MAX 1000000
11 Dimethylpropylphenol	Not Detected	Result <= MAX 1000000
4-tert-Amylphenol	Not Detected	Result <= MAX 1000000
4-n-Heptylphenol	Not Detected	Result <= MAX 1000000
Dechlorane Plus	Not Detected	Result <= MAX 1000000
Terphenyl hydrogenated	Not Detected	Result <= MAX 1000000
Ethylenediamine	Not Detected	Result <= MAX 1000000
TMA	Not Detected	Result <= MAX 1000000
4MBC	Not Detected	Result <= MAX 1000000
3BC	Not Detected	Result <= MAX 1000000
PTBP	Not Detected	Result <= MAX 1000000
MCCP	Not detected	Result <= MAX 1000000

Part description: **SOLDER on PCB**

Analysis: **Heavy metals content**

According to: Directive 2011/65/EU - ROHS 2

Testing conditions: 111/54/CDV & IEC 62321 & NPR-CR 10299





## Tested parts

Part description: **SOLDER on PCB**

Analysis: **Heavy metals content**

According to: Directive 2011/65/EU - ROHS 2

Testing conditions: 111/54/CDV & IEC 62321 & NPR-CR 10299

Component	Result	Specification
Cadmium	0 ppm	Result <= MAX 100
Lead	0 ppm	Result <= MAX 1000
Tin	968000 ppm	Result <= MAX 1000000

\*\*\* END OF REPORT \*\*\*

