

Certificate Of Analysis

TEALIGHTS LED SET 24PCS



Report number AX5990090-338185-2


Print date: 2020-05-25

Applicant:	Koopman International
Country:	The Netherlands
Article description:	TEALIGHTS LED SET 24PCS
Item number:	AX5990090
Order number:	338185
Date of article received:	mei 19, 2020
Testing Completed:	mei 25,2020
Order type:	Shipment
EAN code:	8719202404197

Conclusion: Passed

The test results only apply to the tested specimens

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


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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.





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Summary of tested parts.

Part(s) description:

black plastic switch

transparent plastic battery protection

transparent plastic box

transparent plastic brown lid of the box

transparent plastic flame

white plastic battery box

white plastic tea light

(The test results for the above part(s) are found at the next pages)

	Result	Units	Spec rule	Min	Max
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Part description: transparent plastic box

Heavy metals content

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

testing conditions: 111/54/CDV & IEC 62321

Cadmium	0	ppm	Result <= MAX		100
Lead	0	ppm	Result <= MAX		1000
Chromium	0	ppm	Result <= MAX		1000
Mercury	0	ppm	Result <= MAX		1000

PCN

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

testing conditions: CPSC_CH_C1001-09.3 EPA3546 / ASTM D7823-14

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

PAH (18 ZEK - EPA)

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

testing conditions: AfPS GS 2014:01 PAK Category 3

Benzo a pyrene	Not detected		Result <= MAX		1.0
Benzo a anthracene	Not detected		Result <= MAX		1.0
Chrysene	Not detected		Result <= MAX		1.0
Benzo b fluoranthene	Not detected		Result <= MAX		1.0
Benzo k fluoranthene	Not detected		Result <= MAX		1.0
Dibenz ah anthracene	Not detected		Result <= MAX		1.0
Benzo j fluoranthene	Not detected		Result <= MAX		1.0
Benzo e pyrene	Not detected		Result <= MAX		1.0

	Result	Units	Spec rule	Min	Max
Indeno 123cd pyrene	Not detected		Result <= MAX		1.0
Benzo ghi perylene	Not detected		Result <= MAX		1.0
Acenaphthylene	Not detected		Result <= MAX		50
Acenaphthene	Not detected		Result <= MAX		50
Fluorene	Not detected		Result <= MAX		50
Phenanthrene	Not detected		Result <= MAX		50
Anthracene	Not detected		Result <= MAX		50
Fluoranthene	Not detected		Result <= MAX		50
Pyrene	Not detected		Result <= MAX		50
Naphthalene	Not detected		Result <= MAX		10
sum of 7 PAH	0	ppm	Result <= MAX		50
sum of 18 PAH	0	ppm	Result <= MAX		50
Anthracene oils and pastes	0	ppm	Result <= MAX		1000000
Coal tar	0	ppm	Result <= MAX		1000000

OCP & DMF

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

testing conditions: CPSC_CH_C1001-09.3 EPA3546 / ASTM D7823-14

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

	Result	Units	Spec rule	Min	Max
Dieldrin	Not detected		Result < MAX		1.0
44 DDD	Not detected		Result < MAX		1.0
44 DDT	Not detected		Result < MAX		1.0
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

PCB

according to: POP COMMISSION REGULATION No EC 2019/1021

testing conditions: CPSC_CH_C1001-09.3 EPA3546 / ASTM D7823-14

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
Octachlorobiphenyl	Not detected		Result <= MAX		1.0
Decachlorobiphenyl	Not detected		Result <= MAX		1.0

Phenols

according to: Reach 1907/2006 Annex XVII, entry 2,5,22,32-38,41,48,49,57 on Phenol content.

testing conditions: CPSC_CH_C1001-09.3 EPA3546 / ASTM D7823-14

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

	Result	Units	Spec rule	Min	Max
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Phthalates

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

testing conditions: CPSC_CH_C1001-09.3 EPA3546 / ASTM D7823-14

DMP	0		Result <= MAX		1000000
DEP	0		Result <= MAX		1000000
DAP	0		Result <= MAX		1000000
DIBP	0		Result <= MAX		1000
DBP	0		Result <= MAX		1000
DMEP	0		Result <= MAX		1000000
DPP	0		Result <= MAX		1000000
DIPP	0		Result <= MAX		1000000
nPiPP	0		Result <= MAX		1000000
BBP	0		Result <= MAX		1000
DHP	0		Result <= MAX		1000000
DEEP	0		Result <= MAX		1000000
DEHP	0		Result <= MAX		1000
DIH _p P	0		Result <= MAX		1000000
DNOP	0		Result <= MAX		1000000
DINP	0		Result <= MAX		1000000
DIDP	0		Result <= MAX		1000000
DIH _x P	0		Result <= MAX		1000000
DHNUP	0		Result <= MAX		1000000

SVHC

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

testing conditions: CPSC_CH_C1001-09.3 EPA3546 / ASTM D7823-14

2 Methoxy ethanol	Not detected		Result <= MAX		1000000
Methoxyacetic acid	Not detected		Result <= MAX		1000000
1,2 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



	Result	Units	Spec rule	Min	Max
1 Bromopropane	Not detected		Result <= MAX		1000000
123 Trichloropropane	Not detected		Result <= MAX		1000000
Bis(2methoxyethyl)ether	Not detected		Result <= MAX		1000000
1-methyl-2-pyrrolidinone	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
Benzenamine 44-methylenebis-2-chloro-	Not detected		Result <= MAX		1000000
24 Diaminotoluene	Not detected		Result <= MAX		1000000
Phenylazoaniline	Not detected		Result <= MAX		1000000
44 Methylene di o toluidine	Not detected		Result <= MAX		1000000
44 Oxydianiline	Not detected		Result <= MAX		1000000
o Aminoazotoluene	Not detected		Result <= MAX		1000000
Hexahydro-4-methylphtalic anhydride	Not detected		Result <= MAX		1000000
Phenolphtalein	Not detected		Result <= MAX		1000000
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



	Result	Units	Spec rule	Min	Max
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	Not detected		Result <= MAX		1000000
UV-350	Not detected		Result <= MAX		1000000
HBCDD total	Not detected		Result <= MAX		1000000
13 Propanesultone	Not detected		Result <= MAX		1000000
Dicyclohexyl phthalate	Not detected		Result <= MAX		1000000
HDDA	Not detected		Result <= MAX		1000000
Nitrobenzene	Not detected		Result <= MAX		1000000
Amber Dioxade Isomers	Not detected		Result <= MAX		1000000
Bisphenol A	Not detected		Result <= MAX		1000000
4-tert-Amylphenol	Not detected		Result <= MAX		1000000
Terphenyl hydrogenated	Not detected		Result <= MAX		1000000
4MBC	Not detected		Result <= MAX		1000000
3BC	Not detected		Result <= MAX		1000000

Flame retardants (PBDE and PBB)

according to: Reach 1907/2006 Annex XVII & POP EC/2019/1021, flame retardants content.

testing conditions: 111/54/CDV & IEC 62321

PBDE Total	0	ppm	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



	Result	Units	Spec rule	Min	Max
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	0	ppm	Result <= MAX		1000

Part description: transparent plastic brown lid of the box

Heavy metals content

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

testing conditions: 111/54/CDV & IEC 62321

Cadmium	10	ppm	Result <= MAX		100
Lead	0	ppm	Result <= MAX		1000
Chromium	0	ppm	Result <= MAX		1000
Mercury	0	ppm	Result <= MAX		1000

PCN

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

testing conditions: CPSC_CH_C1001-09.3 EPA3546 / ASTM D7823-14

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

	Result	Units	Spec rule	Min	Max
Halowax 1051 octa PCN	Not detected		Result < MAX		0,1

PAH (18 ZEK - EPA)

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

testing conditions: AfPS GS 2014:01 PAK Category 3

Benzo a pyrene	Not detected		Result <= MAX		1.0
Benzo a anthracene	Not detected		Result <= MAX		1.0
Chrysene	Not detected		Result <= MAX		1.0
Benzo b fluoranthene	Not detected		Result <= MAX		1.0
Benzo k fluoranthene	Not detected		Result <= MAX		1.0
Dibenz ah anthracene	Not detected		Result <= MAX		1.0
Benzo j fluoranthene	Not detected		Result <= MAX		1.0
Benzo e pyrene	Not detected		Result <= MAX		1.0
Indeno 123cd pyrene	Not detected		Result <= MAX		1.0
Benzo ghi perylene	Not detected		Result <= MAX		1.0
Acenaphthylene	Not detected		Result <= MAX		50
Acenaphthene	Not detected		Result <= MAX		50
Fluorene	Not detected		Result <= MAX		50
Phenanthrene	Not detected		Result <= MAX		50
Anthracene	Not detected		Result <= MAX		50
Fluoranthene	Not detected		Result <= MAX		50
Pyrene	Not detected		Result <= MAX		50
Naphthalene	Not detected		Result <= MAX		10
sum of 7 PAH	0	ppm	Result <= MAX		50
sum of 18 PAH	0	ppm	Result <= MAX		50
Anthracene oils and pastes	0	ppm	Result <= MAX		1000000
Coal tar	0	ppm	Result <= MAX		1000000

OCP & DMF

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

testing conditions: CPSC_CH_C1001-09.3 EPA3546 / ASTM D7823-14

DMF (DIMETHYLFUMARATE)	Not detected		Result < MAX		0.1
a BHC	Not detected		Result < MAX		1.0

	Result	Units	Spec rule	Min	Max
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 detected		Result < MAX		1,0
44 DDT	Not detected		Result < MAX		1,0
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

PCB
according to: POP COMMISSION REGULATION No EC 2019/1021

testing conditions: CPSC_CH_C1001-09.3 EPA3546 / ASTM D7823-14

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



	Result	Units	Spec rule	Min	Max
Octachlorobiphenyl	Not detected		Result <= MAX		1.0
Decachlorobiphenyl	Not detected		Result <= MAX		1.0

Phenols

according to: Reach 1907/2006 Annex XVII, entry 2,5,22,32-38,41,48,49,57 on Phenol content.

testing conditions: CPSC_CH_C1001-09.3 EPA3546 / ASTM D7823-14

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

Phthalates

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

testing conditions: CPSC_CH_C1001-09.3 EPA3546 / ASTM D7823-14

DMP	0		Result <= MAX		1000000
DEP	0		Result <= MAX		1000000
DAP	0		Result <= MAX		1000000
DIBP	0		Result <= MAX		1000
DBP	0		Result <= MAX		1000
DMEP	0		Result <= MAX		1000000
DPP	0		Result <= MAX		1000000
DIPP	0		Result <= MAX		1000000
nPiPP	0		Result <= MAX		1000000
BBP	0		Result <= MAX		1000
DHP	0		Result <= MAX		1000000
DEEP	0		Result <= MAX		1000000
DEHP	0		Result <= MAX		1000
DIHpP	0		Result <= MAX		1000000
DNOP	0		Result <= MAX		1000000
DINP	0		Result <= MAX		1000000
DIDP	0		Result <= MAX		1000000
DIHxP	0		Result <= MAX		1000000
DHNUP	0		Result <= MAX		1000000



**Result****Units****Spec rule****Min****Max****SVHC**

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

testing conditions: CPSC_CH_C1001-09.3 EPA3546 / ASTM D7823-14

	Result	Units	Spec rule	Min	Max
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
1-methyl-2-pyrrolidinone	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
Benzenamine 44-methylenebis-2-chloro-	Not detected		Result <= MAX		1000000
24 Diaminotoluene	Not detected		Result <= MAX		1000000
Phenylazoaniline	Not detected		Result <= MAX		1000000
44 Methylene di o toluidine	Not detected		Result <= MAX		1000000
44 Oxydianiline	Not detected		Result <= MAX		1000000
o Aminoazotoluene	Not detected		Result <= MAX		1000000





	Result	Units	Spec rule	Min	Max
Hexahydro-4-methylphthalic anhydride	Not detected		Result <= MAX		1000000
Phenolphthalein	Not detected		Result <= MAX		1000000
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	Not detected		Result <= MAX		1000000
UV-350	Not detected		Result <= MAX		1000000
HBCDD total	Not detected		Result <= MAX		1000000
13 Propanesultone	Not detected		Result <= MAX		1000000
Dicyclohexyl phthalate	Not detected		Result <= MAX		1000000
HDDA	Not detected		Result <= MAX		1000000
Nitrobenzene	Not detected		Result <= MAX		1000000
Amber Dioxade Isomers	Not detected		Result <= MAX		1000000
Bisphenol A	Not detected		Result <= MAX		1000000
4-tert-Amylphenol	Not detected		Result <= MAX		1000000
Terphenyl hydrogenated	Not detected		Result <= MAX		1000000
4MBC	Not detected		Result <= MAX		1000000
3BC	Not detected		Result <= MAX		1000000



	Result	Units	Spec rule	Min	Max
Flame retardants (PBDE and PBB)					
according to: Reach 1907/2006 Annex XVII & POP EC/2019/1021, flame retardants content.					
testing conditions: 111/54/CDV & IEC 62321					
PBDE Total	0	ppm	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	0	ppm	Result <= MAX		1000

Part description: white plastic battery box

Heavy metals content

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

testing conditions: 111/54/CDV & IEC 62321

Cadmium	0	ppm	Result <= MAX		100
Lead	0	ppm	Result <= MAX		1000
Chromium	0	ppm	Result <= MAX		1000





	Result	Units	Spec rule	Min	Max
Mercury	0	ppm	Result <= MAX		1000

PCN

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

testing conditions: CPSC_CH_C1001-09.3 EPA3546 / ASTM D7823-14

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

PAH (18 ZEK - EPA)

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

testing conditions: AfPS GS 2014:01 PAK Category 3

Benzo a pyrene	Not detected		Result <= MAX		1.0
Benzo a anthracene	Not detected		Result <= MAX		1.0
Chrysene	Not detected		Result <= MAX		1.0
Benzo b fluoranthene	Not detected		Result <= MAX		1.0
Benzo k fluoranthene	Not detected		Result <= MAX		1.0
Dibenz ah anthracene	Not detected		Result <= MAX		1.0
Benzo j fluoranthene	Not detected		Result <= MAX		1.0
Benzo e pyrene	Not detected		Result <= MAX		1.0
Indeno 123cd pyrene	Not detected		Result <= MAX		1.0
Benzo ghi perylene	Not detected		Result <= MAX		1.0
Acenaphthylene	Not detected		Result <= MAX		50
Acenaphthene	Not detected		Result <= MAX		50
Fluorene	Not detected		Result <= MAX		50
Phenanthrene	Not detected		Result <= MAX		50
Anthracene	Not detected		Result <= MAX		50
Fluoranthene	Not detected		Result <= MAX		50



	Result	Units	Spec rule	Min	Max
Pyrene	Not detected		Result <= MAX		50
Naphthalene	Not detected		Result <= MAX		10
sum of 7 PAH	0	ppm	Result <= MAX		50
sum of 18 PAH	0	ppm	Result <= MAX		50
Anthracene oils and pastes	0	ppm	Result <= MAX		1000000
Coal tar	0	ppm	Result <= MAX		1000000

OCP & DMF

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

testing conditions: CPSC_CH_C1001-09.3 EPA3546 / ASTM D7823-14

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 detected		Result < MAX		1,0
44 DDT	Not detected		Result < MAX		1,0
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



	Result	Units	Spec rule	Min	Max
Kepone	Not detected		Result < MAX		1.0

PCB

according to: POP COMMISSION REGULATION No EC 2019/1021

testing conditions: CPSC_CH_C1001-09.3 EPA3546 / ASTM D7823-14

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
Octachlorobiphenyl	Not detected		Result <= MAX		1.0
Decachlorobiphenyl	Not detected		Result <= MAX		1.0

Phenols

according to: Reach 1907/2006 Annex XVII, entry 2,5,22,32-38,41,48,49,57 on Phenol content.

testing conditions: CPSC_CH_C1001-09.3 EPA3546 / ASTM D7823-14

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

Phthalates

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

testing conditions: CPSC_CH_C1001-09.3 EPA3546 / ASTM D7823-14

DMP	0		Result <= MAX		1000000
DEP	0		Result <= MAX		1000000
DAP	0		Result <= MAX		1000000
DIBP	0		Result <= MAX		1000
DBP	0		Result <= MAX		1000
DMEP	0		Result <= MAX		1000000
DPP	0		Result <= MAX		1000000





	Result	Units	Spec rule	Min	Max
DIPP	0		Result <= MAX		1000000
nPiPP	0		Result <= MAX		1000000
BBP	0		Result <= MAX		1000
DHP	0		Result <= MAX		1000000
DEEP	0		Result <= MAX		1000000
DEHP	0	ppm	Result <= MAX		1000
DIHpP	0		Result <= MAX		1000000
DNOP	0		Result <= MAX		1000000
DINP	0		Result <= MAX		1000000
DIDP	0		Result <= MAX		1000000
DIHxP	0		Result <= MAX		1000000
DHNUP	0		Result <= MAX		1000000

SVHC

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

testing conditions: CPSC_CH_C1001-09.3 EPA3546 / ASTM D7823-14

2 Methoxy ethanol	Not detected		Result <= MAX		1000000
Methoxyacetic acid	Not detected		Result <= MAX		1000000
1,2 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
1,1,2 Trichloropropane	Not detected		Result <= MAX		1000000
Bis(2methoxyethyl)ether	Not detected		Result <= MAX		1000000
1-methyl-2-pyrrolidinone	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



	Result	Units	Spec rule	Min	Max
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
Benzenamine 44-methylenebis-2-chloro-	Not detected		Result <= MAX		1000000
24 Diaminotoluene	Not detected		Result <= MAX		1000000
Phenylazoaniline	Not detected		Result <= MAX		1000000
44 Methylenedi o toluidine	Not detected		Result <= MAX		1000000
44 Oxydianiline	Not detected		Result <= MAX		1000000
o Aminoazotoluene	Not detected		Result <= MAX		1000000
Hexahydro-4-methylphtalic anhydride	Not detected		Result <= MAX		1000000
Phenolphthalein	Not detected		Result <= MAX		1000000
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 oligoment 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	Not detected		Result <= MAX		1000000
UV-350	Not detected		Result <= MAX		1000000
HBCDD total	Not detected		Result <= MAX		1000000

	Result	Units	Spec rule	Min	Max
13 Propanesultone	Not detected		Result <= MAX		1000000
Dicyclohexyl phthalate	Not detected		Result <= MAX		1000000
HDDA	Not detected		Result <= MAX		1000000
Nitrobenzene	Not detected		Result <= MAX		1000000
Amber Dioxade Isomers	Not detected		Result <= MAX		1000000
Bisphenol A	Not detected		Result <= MAX		1000000
4-tert-Amylphenol	Not detected		Result <= MAX		1000000
Terphenyl hydrogenated	Not detected		Result <= MAX		1000000
4MBC	Not detected		Result <= MAX		1000000
3BC	Not detected		Result <= MAX		1000000

Flame retardants (PBDE and PBB)

according to: Reach 1907/2006 Annex XVII & POP EC/2019/1021, flame retardants content.

testing conditions: 111/54/CDV & IEC 62321

PBDE Total	0	ppm	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



	Result	Units	Spec rule	Min	Max
NONABROMOBIPHENYL	Not detected		Result < MAX		1000
DECABROMOBIPHENYL	Not detected		Result < MAX		1000
PBB Total	0	ppm	Result <= MAX		1000

Part description: white plastic tea light**Heavy metals content**

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

testing conditions: 111/54/CDV & IEC 62321

Cadmium	0	ppm	Result <= MAX		100
Lead	0	ppm	Result <= MAX		1000
Chromium	0	ppm	Result <= MAX		1000
Mercury	0	ppm	Result <= MAX		1000

PCN

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

testing conditions: CPSC_CH_C1001-09.3 EPA3546 / ASTM D7823-14

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

PAH (18 ZEK - EPA)

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

testing conditions: AfPS GS 2014:01 PAK Category 3

Benzo a pyrene	Not detected		Result <= MAX		1.0
Benzo a anthracene	Not detected		Result <= MAX		1.0
Chrysene	Not detected		Result <= MAX		1.0
Benzo b fluoranthene	Not detected		Result <= MAX		1.0



	Result	Units	Spec rule	Min	Max
Benzo k fluoranthene	Not detected		Result <= MAX		1.0
Dibenz ah anthracene	Not detected		Result <= MAX		1.0
Benzo j fluoranthene	Not detected		Result <= MAX		1.0
Benzo e pyrene	Not detected		Result <= MAX		1.0
Indeno 123cd pyrene	Not detected		Result <= MAX		1.0
Benzo ghi perylene	Not detected		Result <= MAX		1.0
Acenaphthylene	Not detected		Result <= MAX		50
Acenaphthene	Not detected		Result <= MAX		50
Fluorene	Not detected		Result <= MAX		50
Phenanthrene	Not detected		Result <= MAX		50
Anthracene	Not detected		Result <= MAX		50
Fluoranthene	Not detected		Result <= MAX		50
Pyrene	Not detected		Result <= MAX		50
Naphthalene	Not detected		Result <= MAX		10
sum of 7 PAH	0	ppm	Result <= MAX		50
sum of 18 PAH	0	ppm	Result <= MAX		50
Anthracene oils and pastes	0	ppm	Result <= MAX		1000000
Coal tar	0	ppm	Result <= MAX		1000000

OCP & DMF

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

testing conditions: CPSC_CH_C1001-09.3 EPA3546 / ASTM D7823-14

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

	Result	Units	Spec rule	Min	Max
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 detected		Result < MAX		1,0
44 DDT	Not detected		Result < MAX		1,0
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

PCB

according to: POP COMMISSION REGULATION No EC 2019/1021

testing conditions: CPSC_CH_C1001-09.3 EPA3546 / ASTM D7823-14

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
Octachlorobiphenyl	Not detected		Result <= MAX		1.0
Decachlorobiphenyl	Not detected		Result <= MAX		1.0

Phenols

according to: Reach 1907/2006 Annex XVII, entry 2,5,22,32-38,41,48,49,57 on Phenol content.

testing conditions: CPSC_CH_C1001-09.3 EPA3546 / ASTM D7823-14

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

	Result	Units	Spec rule	Min	Max
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Phthalates
 according to: Directive (EU) 2015/863 on Phthalates
 testing conditions: CPSC_CH_C1001-09.3 EPA3546 / ASTM D7823-14

DMP	0		Result <= MAX		1000000
DEP	0		Result <= MAX		1000000
DAP	0		Result <= MAX		1000000
DIBP	0		Result <= MAX		1000
DBP	0		Result <= MAX		1000
DMEP	0		Result <= MAX		1000000
DPP	0		Result <= MAX		1000000
DIPP	0		Result <= MAX		1000000
nPiPP	0		Result <= MAX		1000000
BBP	0		Result <= MAX		1000
DHP	0		Result <= MAX		1000000
DEEP	0		Result <= MAX		1000000
DEHP	0		Result <= MAX		1000
DIH _p P	0		Result <= MAX		1000000
DNOP	0		Result <= MAX		1000000
DINP	0		Result <= MAX		1000000
DIDP	0		Result <= MAX		1000000
DIH _x P	0		Result <= MAX		1000000
DHNUP	0		Result <= MAX		1000000

SVHC
 according to: Reach 1907/2006 art 33-57 on SVHC
 testing conditions: CPSC_CH_C1001-09.3 EPA3546 / ASTM D7823-14

2 Methoxy ethanol	Not detected		Result <= MAX		1000000
Methoxyacetic acid	Not detected		Result <= MAX		1000000
1,2 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

	Result	Units	Spec rule	Min	Max
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
1-methyl-2-pyrrolidinone	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
Benzenamine 44-methylenebis-2-chloro-	Not detected		Result <= MAX		1000000
24 Diaminotoluene	Not detected		Result <= MAX		1000000
Phenylazoaniline	Not detected		Result <= MAX		1000000
44 Methylenedi o toluidine	Not detected		Result <= MAX		1000000
44 Oxydianiline	Not detected		Result <= MAX		1000000
o Aminoazotoluene	Not detected		Result <= MAX		1000000
Hexahydro-4-methylphtalic anhydride	Not detected		Result <= MAX		1000000
Phenolphthalein	Not detected		Result <= MAX		1000000
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



	Result	Units	Spec rule	Min	Max
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	Not detected		Result <= MAX		1000000
UV-350	Not detected		Result <= MAX		1000000
HBCDD total	Not detected		Result <= MAX		1000000
13 Propanesultone	Not detected		Result <= MAX		1000000
Dicyclohexyl phthalate	Not detected		Result <= MAX		1000000
HDDA	Not detected		Result <= MAX		1000000
Nitrobenzene	Not detected		Result <= MAX		1000000
Amber Dioxade Isomers	Not detected		Result <= MAX		1000000
Bisphenol A	Not detected		Result <= MAX		1000000
4-tert-Amylphenol	Not detected		Result <= MAX		1000000
Terphenyl hydrogenated	Not detected		Result <= MAX		1000000
4MBC	Not detected		Result <= MAX		1000000
3BC	Not detected		Result <= MAX		1000000

Flame retardants (PBDE and PBB)

according to: Reach 1907/2006 Annex XVII & POP EC/2019/1021, flame retardants content.

testing conditions: 111/54/CDV & IEC 62321

PBDE Total	0	ppm	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



	Result	Units	Spec rule	Min	Max
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	0	ppm	Result <= MAX		1000

Part description: transparent plastic flame

Heavy metals content

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

testing conditions: 111/54/CDV & IEC 62321

Cadmium	0	ppm	Result <= MAX		100
Lead	0	ppm	Result <= MAX		1000
Chromium	0	ppm	Result <= MAX		1000
Mercury	0	ppm	Result <= MAX		1000

PCN

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

testing conditions: CPSC_CH_C1001-09.3 EPA3546 / ASTM D7823-14

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

	Result	Units	Spec rule	Min	Max
Halowax 1051 hepta PCN	Not detected		Result < MAX		0,1
Halowax 1051 octa PCN	Not detected		Result < MAX		0,1

PAH (18 ZEK - EPA)

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

testing conditions: AfPS GS 2014:01 PAK Category 3

Benzo a pyrene	Not detected		Result <= MAX		1.0
Benzo a anthracene	Not detected		Result <= MAX		1.0
Chrysene	Not detected		Result <= MAX		1.0
Benzo b fluoranthene	Not detected		Result <= MAX		1.0
Benzo k fluoranthene	Not detected		Result <= MAX		1.0
Dibenz ah anthracene	Not detected		Result <= MAX		1.0
Benzo j fluoranthene	Not detected		Result <= MAX		1.0
Benzo e pyrene	Not detected		Result <= MAX		1.0
Indeno 123cd pyrene	Not detected		Result <= MAX		1.0
Benzo ghi perylene	Not detected		Result <= MAX		1.0
Acenaphthylene	Not detected		Result <= MAX		50
Acenaphthene	Not detected		Result <= MAX		50
Fluorene	Not detected		Result <= MAX		50
Phenanthrene	Not detected		Result <= MAX		50
Anthracene	Not detected		Result <= MAX		50
Fluoranthene	Not detected		Result <= MAX		50
Pyrene	Not detected		Result <= MAX		50
Naphthalene	Not detected		Result <= MAX		10
sum of 7 PAH	0	ppm	Result <= MAX		50
sum of 18 PAH	0	ppm	Result <= MAX		50
Anthracene oils and pastes	0	ppm	Result <= MAX		1000000
Coal tar	0	ppm	Result <= MAX		1000000

OCP & DMF

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

testing conditions: CPSC_CH_C1001-09.3 EPA3546 / ASTM D7823-14

DMF (DIMETHYLFUMARATE)	Not detected		Result < MAX		0.1
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	Result	Units	Spec rule	Min	Max
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 detected		Result < MAX		1,0
44 DDT	Not detected		Result < MAX		1,0
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

PCB

according to: POP COMMISSION REGULATION No EC 2019/1021

testing conditions: CPSC_CH_C1001-09.3 EPA3546 / ASTM D7823-14

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

	Result	Units	Spec rule	Min	Max
Heptachlorobiphenyl	Not detected		Result <= MAX		1.0
Octachlorobiphenyl	Not detected		Result <= MAX		1.0
Decachlorobiphenyl	Not detected		Result <= MAX		1.0

Phenols

according to: Reach 1907/2006 Annex XVII, entry 2,5,22,32-38,41,48,49,57 on Phenol content.

testing conditions: CPSC_CH_C1001-09.3 EPA3546 / ASTM D7823-14

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

Phthalates

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

testing conditions: CPSC_CH_C1001-09.3 EPA3546 / ASTM D7823-14

DMP	0		Result <= MAX		1000000
DEP	0		Result <= MAX		1000000
DAP	0		Result <= MAX		1000000
DIBP	0		Result <= MAX		1000
DBP	0		Result <= MAX		1000
DMEP	0		Result <= MAX		1000000
DPP	0		Result <= MAX		1000000
DIPP	0		Result <= MAX		1000000
nPiPP	0		Result <= MAX		1000000
BBP	0		Result <= MAX		1000
DHP	0		Result <= MAX		1000000
DEEP	0		Result <= MAX		1000000
DEHP	0		Result <= MAX		1000
DIHpP	0		Result <= MAX		1000000
DNOP	0		Result <= MAX		1000000
DINP	0		Result <= MAX		1000000
DIDP	0		Result <= MAX		1000000
DIHxP	0		Result <= MAX		1000000
DHNUP	0		Result <= MAX		1000000

	Result	Units	Spec rule	Min	Max
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SVHC

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

testing conditions: CPSC_CH_C1001-09.3 EPA3546 / ASTM D7823-14

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
1-methyl-2-pyrrolidinone	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
Benzenamine 44-methylenebis-2-chloro-	Not detected		Result <= MAX		1000000
24 Diaminotoluene	Not detected		Result <= MAX		1000000
Phenylazoaniline	Not detected		Result <= MAX		1000000
44 Methylene di o toluidine	Not detected		Result <= MAX		1000000
44 Oxydianiline	Not detected		Result <= MAX		1000000



	Result	Units	Spec rule	Min	Max
o Aminoazotoluene	Not detected		Result <= MAX		1000000
Hexahydro-4-methylphtalic anhydride	Not detected		Result <= MAX		1000000
Phenolphtalein	Not detected		Result <= MAX		1000000
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	Not detected		Result <= MAX		1000000
UV-350	Not detected		Result <= MAX		1000000
HBCDD total	Not detected		Result <= MAX		1000000
13 Propanesultone	Not detected		Result <= MAX		1000000
Dicyclohexyl phthalate	Not detected		Result <= MAX		1000000
HDDA	Not detected		Result <= MAX		1000000
Nitrobenzene	Not detected		Result <= MAX		1000000
Amber Dioxade Isomers	Not detected		Result <= MAX		1000000
Bisphenol A	Not detected		Result <= MAX		1000000
4-tert-Amylphenol	Not detected		Result <= MAX		1000000
Terphenyl hydrogenated	Not detected		Result <= MAX		1000000
4MBC	Not detected		Result <= MAX		1000000
3BC	Not detected		Result <= MAX		1000000

	Result	Units	Spec rule	Min	Max
Flame retardants (PBDE and PBB)					
according to: Reach 1907/2006 Annex XVII & POP EC/2019/1021, flame retardants content.					
testing conditions: 111/54/CDV & IEC 62321					
PBDE Total	0	ppm	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	0	ppm	Result <= MAX		1000

Part description: black plastic switch

Heavy metals content

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

testing conditions: 111/54/CDV & IEC 62321

Cadmium	0	ppm	Result <= MAX		100
Lead	0	ppm	Result <= MAX		1000
Chromium	0	ppm	Result <= MAX		1000





	Result	Units	Spec rule	Min	Max
Mercury	0	ppm	Result <= MAX		1000

PCN

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

testing conditions: CPSC_CH_C1001-09.3 EPA3546 / ASTM D7823-14

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

PAH (18 ZEK - EPA)

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

testing conditions: AfPS GS 2014:01 PAK Category 3

Benzo a pyrene	Not detected		Result <= MAX		1.0
Benzo a anthracene	Not detected		Result <= MAX		1.0
Chrysene	Not detected		Result <= MAX		1.0
Benzo b fluoranthene	Not detected		Result <= MAX		1.0
Benzo k fluoranthene	Not detected		Result <= MAX		1.0
Dibenz ah anthracene	Not detected		Result <= MAX		1.0
Benzo j fluoranthene	Not detected		Result <= MAX		1.0
Benzo e pyrene	Not detected		Result <= MAX		1.0
Indeno 123cd pyrene	Not detected		Result <= MAX		1.0
Benzo ghi perylene	Not detected		Result <= MAX		1.0
Acenaphthylene	Not detected		Result <= MAX		50
Acenaphthene	Not detected		Result <= MAX		50
Fluorene	Not detected		Result <= MAX		50
Phenanthrene	Not detected		Result <= MAX		50
Anthracene	Not detected		Result <= MAX		50
Fluoranthene	Not detected		Result <= MAX		50



	Result	Units	Spec rule	Min	Max
Pyrene	Not detected		Result <= MAX		50
Naphthalene	Not detected		Result <= MAX		10
sum of 7 PAH	0	ppm	Result <= MAX		50
sum of 18 PAH	0	ppm	Result <= MAX		50
Anthracene oils and pastes	0	ppm	Result <= MAX		1000000
Coal tar	0	ppm	Result <= MAX		1000000

OCP & DMF

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

testing conditions: CPSC_CH_C1001-09.3 EPA3546 / ASTM D7823-14

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 detected		Result < MAX		1,0
44 DDT	Not detected		Result < MAX		1,0
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

	Result	Units	Spec rule	Min	Max
Kepone	Not detected		Result < MAX		1.0

PCB
according to: POP COMMISSION REGULATION No EC 2019/1021

testing conditions: CPSC_CH_C1001-09.3 EPA3546 / ASTM D7823-14

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
Octachlorobiphenyl	Not detected		Result <= MAX		1.0
Decachlorobiphenyl	Not detected		Result <= MAX		1.0

Phenols
according to: Reach 1907/2006 Annex XVII, entry 2,5,22,32-38,41,48,49,57 on Phenol content.

testing conditions: CPSC_CH_C1001-09.3 EPA3546 / ASTM D7823-14

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

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

testing conditions: CPSC_CH_C1001-09.3 EPA3546 / ASTM D7823-14

DMP	0		Result <= MAX		1000000
DEP	0		Result <= MAX		1000000
DAP	0		Result <= MAX		1000000
DIBP	0		Result <= MAX		1000
DBP	0		Result <= MAX		1000
DMEP	0		Result <= MAX		1000000
DPP	0		Result <= MAX		1000000

	Result	Units	Spec rule	Min	Max
DIPP	0		Result <= MAX		1000000
nPiPP	0		Result <= MAX		1000000
BBP	0		Result <= MAX		1000
DHP	0		Result <= MAX		1000000
DEEP	0		Result <= MAX		1000000
DEHP	0	ppm	Result <= MAX		1000
DIHpP	0		Result <= MAX		1000000
DNOP	0		Result <= MAX		1000000
DINP	0		Result <= MAX		1000000
DIDP	0		Result <= MAX		1000000
DIHxP	0		Result <= MAX		1000000
DHNUP	0		Result <= MAX		1000000

SVHC

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

testing conditions: CPSC_CH_C1001-09.3 EPA3546 / ASTM D7823-14

2 Methoxy ethanol	Not detected		Result <= MAX		1000000
Methoxyacetic acid	Not detected		Result <= MAX		1000000
1,2 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
1,1,2 Trichloropropane	Not detected		Result <= MAX		1000000
Bis(2methoxyethyl)ether	Not detected		Result <= MAX		1000000
1-methyl-2-pyrrolidinone	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

	Result	Units	Spec rule	Min	Max
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
Benzenamine 44-methylenebis-2-chloro-	Not detected		Result <= MAX		1000000
24 Diaminotoluene	Not detected		Result <= MAX		1000000
Phenylazoaniline	Not detected		Result <= MAX		1000000
44 Methylenedi o toluidine	Not detected		Result <= MAX		1000000
44 Oxydianiline	Not detected		Result <= MAX		1000000
o Aminoazotoluene	Not detected		Result <= MAX		1000000
Hexahydro-4-methylphtalic anhydride	Not detected		Result <= MAX		1000000
Phenolphthalein	Not detected		Result <= MAX		1000000
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 oligoment 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	Not detected		Result <= MAX		1000000
UV-350	Not detected		Result <= MAX		1000000
HBCDD total	Not detected		Result <= MAX		1000000



	Result	Units	Spec rule	Min	Max
13 Propanesultone	Not detected		Result <= MAX		1000000
Dicyclohexyl phthalate	Not detected		Result <= MAX		1000000
HDDA	Not detected		Result <= MAX		1000000
Nitrobenzene	Not detected		Result <= MAX		1000000
Amber Dioxade Isomers	Not detected		Result <= MAX		1000000
Bisphenol A	Not detected		Result <= MAX		1000000
4-tert-Amylphenol	Not detected		Result <= MAX		1000000
Terphenyl hydrogenated	Not detected		Result <= MAX		1000000
4MBC	Not detected		Result <= MAX		1000000
3BC	Not detected		Result <= MAX		1000000

Flame retardants (PBDE and PBB)

according to: Reach 1907/2006 Annex XVII & POP EC/2019/1021, flame retardants content.

testing conditions: 111/54/CDV & IEC 62321

PBDE Total	0	ppm	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



	Result	Units	Spec rule	Min	Max
NONABROMOBIPHENYL	Not detected		Result < MAX		1000
DECABROMOBIPHENYL	Not detected		Result < MAX		1000
PBB Total	0	ppm	Result <= MAX		1000

Part description: transparent plastic battery protection

PCN

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

testing conditions: CPSC_CH_C1001-09.3 EPA3546 / ASTM D7823-14

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

PAH (18 ZEK - EPA)

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

testing conditions: AfPS GS 2014:01 PAK

Benzo a pyrene	Not detected		Result <= MAX		1000000
Benzo a anthracene	Not detected		Result <= MAX		1000000
Chrysene	Not detected		Result <= MAX		1000000
Anthracene	Not detected		Result <= MAX		1000000
Anthracene oils and pastes	0	ppm	Result <= MAX		1000000
Coal tar	0	ppm	Result <= MAX		1000000

OCP & DMF

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

testing conditions: CPSC_CH_C1001-09.3 EPA3546 / ASTM D7823-14

DMF (DIMETHYLFUMARATE)	Not detected		Result < MAX		0.1
a BHC	Not detected		Result < MAX		1.0

	Result	Units	Spec rule	Min	Max
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 detected		Result < MAX		1,0
44 DDT	Not detected		Result < MAX		1,0
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

Phthalates

according to: Reach (EC) 1907/2006 - Annex XVII, entry 51-52 on phthalates content and entry 28-29-30 on CMR content.

testing conditions: CPSC_CH_C1001-09.3 EPA3546 / ASTM D7823-14

DMP	0		Result <= MAX		1000000
DEP	0		Result <= MAX		1000000
DAP	0		Result <= MAX		1000000
DIBP	0		Result <= MAX		1000
DBP	0		Result <= MAX		1000
DMEP	0		Result <= MAX		1000000
DPP	0		Result <= MAX		1000000



	Result	Units	Spec rule	Min	Max
DIPP	0		Result <= MAX		1000000
nPiPP	0		Result <= MAX		1000000
BBP	0		Result <= MAX		1000
DHP	0		Result <= MAX		1000000
DEEP	0		Result <= MAX		1000000
DEHP	0	ppm	Result <= MAX		1000
DIHpP	0		Result <= MAX		1000000
DNOP	0		Result <= MAX		1000000
DINP	0		Result <= MAX		1000000
DIDP	0		Result <= MAX		1000000
DIHxP	0		Result <= MAX		1000000
DHNUP	0		Result <= MAX		1000000

Phenols

according to: Reach 1907/2006 Annex XVII, entry 2,5,22,32-38,41,48,49,57 on Phenol content and Reach 1907/2006 Annex XVII, entry 28-29-30, CMR content

testing conditions: CPSC_CH_C1001-09.3 EPA3546 / ASTM D7823-14

Phenol, pentachloro- / PCP	Not detected		Result <= MAX		100
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PCB

according to: POP COMMISSION REGULATION No EC 2019/1021

testing conditions: CPSC_CH_C1001-09.3 EPA3546 / ASTM D7823-14

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
Octachlorobiphenyl	Not detected		Result <= MAX		1.0
Decachlorobiphenyl	Not detected		Result <= MAX		1.0



Result	Units	Spec rule	Min	Max
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Reach restrictions annex 17

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

testing conditions: CPSC_CH_C1001-09.3 EPA3546 / ASTM D7823-14

Substance	Result	Units	Spec rule	Min	Max
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 detected		Result <= MAX		1000

Heavy metals content

according to: Reach (EC) 1907/2006 - Annex XVII entry 20-21 on Tin, 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

Substance	Result	Units	Spec rule	Min	Max
Cadmium	0	ppm	Result <= MAX		100
Lead	0	ppm	Result <= MAX		100
Chromium	0	ppm	Result <= MAX		100
Mercury	0	ppm	Result <= MAX		100

SVHC

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

testing conditions: CPSC_CH_C1001-09.3 EPA3546 / ASTM D7823-14

Substance	Result	Units	Spec rule	Min	Max
2 Methoxy ethanol	Not detected		Result <= MAX		1000000
Methoxyacetic acid	Not detected		Result <= MAX		1000000
1,2 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
1,2,3 Trichloropropane	Not detected		Result <= MAX		1000000
Bis(2methoxyethyl)ether	Not detected		Result <= MAX		1000000
1-methyl-2-pyrrolidinone	Not detected		Result <= MAX		1000000



	Result	Units	Spec rule	Min	Max
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
Benzenamine 44-methylenebis-2-chloro-	Not detected		Result <= MAX		1000000
24 Diaminotoluene	Not detected		Result <= MAX		1000000
Phenylazoaniline	Not detected		Result <= MAX		1000000
44 Methylenedi o toluidine	Not detected		Result <= MAX		1000000
44 Oxydianiline	Not detected		Result <= MAX		1000000
o Aminoazotoluene	Not detected		Result <= MAX		1000000
Hexahydro-4-methylphtalic anhydride	Not detected		Result <= MAX		1000000
Phenolphtalein	Not detected		Result <= MAX		1000000
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 oligoment reaction products	0	ppm	Result <= MAX		1000000
DBTDC	Not detected		Result <= MAX		1000000

	Result	Units	Spec rule	Min	Max
12 Diethoxyethane	Not detected		Result <= MAX		1000000
Imidazolidine-2-thione	Not detected		Result <= MAX		1000000
UV-328	Not detected		Result <= MAX		1000000
Uvazol 237	Not detected		Result <= MAX		1000000
UV-350	Not detected		Result <= MAX		1000000
HBCDD total	Not detected		Result <= MAX		1000000
13 Propanesultone	Not detected		Result <= MAX		1000000
Dicyclohexyl phthalate	Not detected		Result <= MAX		1000000
HDDA	Not detected		Result <= MAX		1000000
Nitrobenzene	Not detected		Result <= MAX		1000000
Amber Dioxade Isomers	Not detected		Result <= MAX		1000000
Bisphenol A	Not detected		Result <= MAX		1000000
4-tert-Amylphenol	Not detected		Result <= MAX		1000000
Terphenyl hydrogenated	Not detected		Result <= MAX		1000000
4MBC	Not detected		Result <= MAX		1000000
3BC	Not detected		Result <= MAX		1000000

Flame retardants (PBDE and PBB)

according to: Reach 1907/2006 Annex XVII & POP EC/2019/1021, flame retardants content.

testing conditions: 111/54/CDV & IEC 62321

MonoBDE	Not detected		Result <= MAX		1000
DiBDE	Not detected		Result <= MAX		1000
TriBDE	Not detected		Result <= MAX		1000
TetraBDE	Not detected		Result <= MAX		500
PentaBDE	Not detected		Result <= MAX		500
HexaBDE	Not detected		Result <= MAX		500
HeptaBDE	Not detected		Result <= MAX		500
OctaBDE	Not detected		Result <= MAX		1000
NonaBDE	Not detected		Result <= MAX		1000
DecaBDE	Not detected		Result <= MAX		500
MONOBROMOBIPHENYL	Not detected		Result < MAX		1
DIBROMOBIPHENYL	Not detected		Result < MAX		1
TRIBROMOBIPHENYL	Not detected		Result < MAX		1



	Result	Units	Spec rule	Min	Max
TETRABROMOBIPHENYL	Not detected		Result < MAX		1
PENTABROMOBIPHENYL	Not detected		Result < MAX		1
HEXABROMOBIPHENYL	Not detected		Result < MAX		1
HEPTABROMOBIPHENYL	Not detected		Result < MAX		1
OCTABROMOBIPHENYL	Not detected		Result < MAX		1
NONABROMOBIPHENYL	Not detected		Result < MAX		1
DECABROMOBIPHENYL	Not detected		Result < MAX		1
PBDE Total POP	0	ppm	Result <= MAX		500

*** END OF REPORT ***

