

Certificate Of Analysis

CHEFS TORCH 3ASS COLORS

**Report number YV1810050-338671-1****Print date: 2020-05-25**

Applicant:	Koopman International
Country:	The Netherlands
Article description:	CHEFS TORCH 3ASS COLORS
Item number:	YV1810050
Order number:	338671
Date of article received:	april 14, 2020
Testing Completed:	mei 25,2020
Order type:	Purchase Order
EAN code:	8719987713163

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. F. Pamejan
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 hose plastic

black piezo plastic

black plastic

painted tank plastic

red plastic

semi transparent hose plastic

(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: black plastic

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

Cadmium	0	ppm	Result <= MAX		100
Lead	30	ppm	Result <= MAX		100
Mercury	100	ppm	Result <= MAX		100

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 2

Benzo a pyrene	Not detected		Result <= MAX		0.5
Benzo a anthracene	Not detected		Result <= MAX		0.5
Chrysene	Not detected		Result <= MAX		0.5
Benzo b fluoranthene	Not detected		Result <= MAX		0.5
Benzo k fluoranthene	Not detected		Result <= MAX		0.5
Dibenz ah anthracene	Not detected		Result <= MAX		0.5
Benzo j fluoranthene	Not detected		Result <= MAX		0.5
Benzo e pyrene	Not detected		Result <= MAX		0.5
Indeno 123cd pyrene	Not detected		Result <= MAX		0.5



	Result	Units	Spec rule	Min	Max
Benzo ghi perylene	Not detected		Result <= MAX		0.5
Acenaphthylene	Not detected		Result <= MAX		10
Acenaphthene	Not detected		Result <= MAX		10
Fluorene	Not detected		Result <= MAX		10
Phenanthrene	Not detected		Result <= MAX		10
Anthracene	Not detected		Result <= MAX		10
Fluoranthene	Not detected		Result <= MAX		10
Pyrene	Not detected		Result <= MAX		10
Naphthalene	Not detected		Result <= MAX		2
sum of 7 PAH	0	ppm	Result <= MAX		10
sum of 18 PAH	0	ppm	Result <= MAX		10
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



	Result	Units	Spec rule	Min	Max
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		1000
Nonyl phenol	Not detected		Result <= MAX		1000
Phenol, pentachloro- / PCP	Not detected		Result <= MAX		5

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	0	ppm	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
12 Cyclohexanedicarbolic anhydride	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





	Result	Units	Spec rule	Min	Max
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
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	0	ppm	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



	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					
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
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

Phthalates

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

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



	Result	Units	Spec rule	Min	Max
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	400	ppm	Result <= MAX		1000
DIHpP	0		Result <= MAX		1000000
DNOP	400	ppm	Result <= MAX		1000000
DINP	0		Result <= MAX		1000000
DIDP	0		Result <= MAX		1000000
DIHxP	0		Result <= MAX		1000000
DHNUP	0		Result <= MAX		1000000

Part description: painted tank plastic
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

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

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 2

Benzo a pyrene	Not detected		Result <= MAX		0.5
Benzo a anthracene	Not detected		Result <= MAX		0.5
Chrysene	Not detected		Result <= MAX		0.5
Benzo b fluoranthene	Not detected		Result <= MAX		0.5
Benzo k fluoranthene	Not detected		Result <= MAX		0.5
Dibenz ah anthracene	Not detected		Result <= MAX		0.5
Benzo j fluoranthene	Not detected		Result <= MAX		0.5
Benzo e pyrene	Not detected		Result <= MAX		0.5
Indeno 123cd pyrene	Not detected		Result <= MAX		0.5
Benzo ghi perylene	Not detected		Result <= MAX		0.5
Acenaphthylene	Not detected		Result <= MAX		10
Acenaphthene	Not detected		Result <= MAX		10
Fluorene	Not detected		Result <= MAX		10
Phenanthrene	Not detected		Result <= MAX		10
Anthracene	Not detected		Result <= MAX		10
Fluoranthene	Not detected		Result <= MAX		10
Pyrene	Not detected		Result <= MAX		10
Naphthalene	1.0	ppm	Result <= MAX		2
sum of 7 PAH	0	ppm	Result <= MAX		10
sum of 18 PAH	1	ppm	Result <= MAX		10
Anthracene oils and pastes	0	ppm	Result <= MAX		1000000
Coal tar	1	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		1000
Nonyl phenol	Not detected		Result <= MAX		1000
Phenol, pentachloro- / PCP	Not detected		Result <= MAX		5

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	0	ppm	Result <= MAX		1000000
Methoxyacetic acid	Not detected		Result <= MAX		1000000
1,2 Dichloroethane	0	ppm	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	0	ppm	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
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





	Result	Units	Spec rule	Min	Max
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
12 Cyclohexanedicarboic anhydride	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 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





	Result	Units	Spec rule	Min	Max
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
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	0	ppm	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

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
TETRABROMOBIPHENYL	Not detected		Result < MAX		1





	Result	Units	Spec rule	Min	Max
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

Phthalates

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

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	500	ppm	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

Part description: red plastic



Result	Units	Spec rule	Min	Max
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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

Result	Units	Spec rule	Min	Max
Cadmium	10	ppm	Result <= MAX	100
Lead	0	ppm	Result <= MAX	100
Mercury	0	ppm	Result <= MAX	100

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 2

Benzo a pyrene	Not detected		Result <= MAX	0.5
Benzo a anthracene	Not detected		Result <= MAX	0.5
Chrysene	Not detected		Result <= MAX	0.5
Benzo b fluoranthene	Not detected		Result <= MAX	0.5
Benzo k fluoranthene	Not detected		Result <= MAX	0.5
Dibenz ah anthracene	Not detected		Result <= MAX	0.5
Benzo j fluoranthene	Not detected		Result <= MAX	0.5
Benzo e pyrene	Not detected		Result <= MAX	0.5
Indeno 123cd pyrene	Not detected		Result <= MAX	0.5
Benzo ghi perylene	Not detected		Result <= MAX	0.5

	Result	Units	Spec rule	Min	Max
Acenaphthylene	Not detected		Result <= MAX		10
Acenaphthene	Not detected		Result <= MAX		10
Fluorene	Not detected		Result <= MAX		10
Phenanthrene	Not detected		Result <= MAX		10
Anthracene	Not detected		Result <= MAX		10
Fluoranthene	Not detected		Result <= MAX		10
Pyrene	Not detected		Result <= MAX		10
Naphthalene	Not detected		Result <= MAX		2
sum of 7 PAH	0	ppm	Result <= MAX		10
sum of 18 PAH	0	ppm	Result <= MAX		10
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



	Result	Units	Spec rule	Min	Max
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		1000
Nonyl phenol	Not detected		Result <= MAX		1000
Phenol, pentachloro- / PCP	Not detected		Result <= MAX		5

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
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	Result	Units	Spec rule	Min	Max
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	0	ppm	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
12 Cyclohexanedicarboic anhydride	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





	Result	Units	Spec rule	Min	Max
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
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	0	ppm	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



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

Phthalates

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

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

	Result	Units	Spec rule	Min	Max
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

Part description: black hose plastic
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



	Result	Units	Spec rule	Min	Max
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
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



	Result	Units	Spec rule	Min	Max
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
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	100	ppm	Result <= MAX		1000
DIH _p P	0		Result <= MAX		1000000
DNOP	100	ppm	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

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		5
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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
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	Result	Units	Spec rule	Min	Max
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

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

DEGME	Not detected		Result <= MAX		30000
4-Nitrobiphenyl	Not detected		Result <= MAX		1000
1,4-dichloro-butene trans	Not detected		Result <= MAX		1000
1,4-dichloro-butene cis	Not detected		Result <= MAX		1000
N,N-dimethylhydrazine	Not detected		Result <= MAX		1000
dimethylcarbonyl chloride	Not Analyzed		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

Cadmium	0	ppm	Result <= MAX		100
Lead	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

2 Methoxy ethanol	Not detected		Result <= MAX		1000000
Methoxyacetic acid	Not detected		Result <= MAX		1000000
12 Dichloroethane	Not detected		Result <= MAX		1000000



	Result	Units	Spec rule	Min	Max
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	0	ppm	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
12 Cyclohexanedicarboic anhydride	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





	Result	Units	Spec rule	Min	Max
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
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	0	ppm	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





Result	Units	Spec rule	Min	Max
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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

Result	Units	Spec rule	Min	Max
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
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

Part description: semi transparent hose plastic**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



	Result	Units	Spec rule	Min	Max
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	0.0	ppm	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
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 Analyzed		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	ppm	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	ppm	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



	Result	Units	Spec rule	Min	Max
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		5

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

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

Cadmium	10	ppm	Result <= MAX		100
Lead	60	ppm	Result <= MAX		100
Mercury	10	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

1-methyl-2-pyrrolidinone	Not detected		Result <= MAX		1000000
TBTO	Not detected		Result <= MAX		1000000
TCEP	Not detected		Result <= MAX		1000000
DNT	Not detected		Result <= MAX		1000000





	Result	Units	Spec rule	Min	Max
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
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
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
Trixylyl phosphate	Not detected		Result <= MAX		1000000
Formaldehyde oligomer reaction products	0	ppm	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
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





	Result	Units	Spec rule	Min	Max
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
TMA	Not detected		Result <= MAX		1000000
4MBC	Not detected		Result <= MAX		1000000
3BC	Not detected		Result <= MAX		1000000

Part description: black piezo plastic**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



	Result	Units	Spec rule	Min	Max
Hexachloro-1-3-butadiene	Not detected		Result < MAX		1.0
Toxaphene	Not detected		Result < MAX		1.0
Kepone	Not detected		Result < MAX		1.0

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	19	ppm	Result <= MAX		1000000

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

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

	Result	Units	Spec rule	Min	Max
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

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		5
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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	ppm	Result <= MAX		1000
DBP	0		Result <= MAX		1000
DMEP	0	ppm	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	ppm	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



	Result	Units	Spec rule	Min	Max
DHNUF	0		Result <= MAX		1000000

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

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

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

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





	Result	Units	Spec rule	Min	Max
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
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





	Result	Units	Spec rule	Min	Max
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

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

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

*** END OF REPORT ***

