

Report No.: 0154075646a 008

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Client: FORM_S
 VELIKA ARNAUTSKA 33 - 65125 - ODESSA - UKRAINE

Supplier's name: N/A

Test item(s): Toy component

Identification / Model No(s): Water Soluble 36+1 colored Pencils
 Refer to detail list (Page 2)

Sample Receiving Date: 2014-11-24

Testing Period: 2014-11-24 - 2014-12-30

Test specification:

Customer's requirement:

Test result:

- | | |
|---|---------------------------|
| 1. EN71-3:2013+A1:2014 Migration of 19 Elements | PASS |
| 2. EN 71 - 9 : 2005 / A1 : 2007; EN 71 - 10 and 11 : 2005 Table 2B Colorants | PASS |
| 3. EN 71 - 9 : 2005 / A1 : 2007; EN 71 - 10 and 11 : 2005 Table 2C Primary Aromatic Amines | PASS |
| 4. ASTM F963-11 Sect. 4.3.5.2 and CPSIA Sect. 101: Total lead content in substrate materials | PASS |
| 5. Banned azo dyes | PASS |
| 6. Total Cadmium Content | PASS |
| 7. Dimethyl fumarate (CAS No.624-49-7) Content | PASS |
| 8. Polycyclic aromatic hydrocarbons (PAHs) - 1907/2006/EC with Amendment No. 552/2009 EC Annex XVII Item No. 50 and (EU) No.1272/2013 | PASS |
| 9. Polycyclic aromatic hydrocarbons (PAHs) - ZEK 01.4-08 | PASS |
| 10. Phthalates Content | PASS |
| 11. Screening of substances of very high concern (SVHC) subject to authorisation, according to (EU) No 143/2011, (EU) No 125/2012, (EU) No 348/2013 and (EU) No 895/2014 (Annex XIV of EC No 1907/2006) and candidate list by European Chemical Agency (ECHA) | Please refer to test page |

For and on behalf of
TÜV Rheinland (Shanghai) Co., Ltd.


2015-01-04

Wice Wang / Section Manager

Date

Name/Position

Test result is drawn according to the kind and extent of tests performed.
This test report relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any safety mark on this or similar products.

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Product Information		
Product Code	Type	Product Description
4120-12CB	Water Color	12 Water Colour (MARCO 2.9mm) Pencils Hex 6.9mm + brush (12)
4120-24CB	Water Color	24 Water Colour (MARCO 2.9mm) Pencils Hex 6.9mm + brush (6)
4120-36CB	Water Color	36 Water Colour (MARCO 2.9mm) Pencils Hex 6.9mm + brush (4)
7120-12CB	Water Color	7" 12 Water Soluble Pencil, Hex, Dipped, Stamping & Sharpened, marco lead, 3.7 mm lead. w/new brush
7120-24CB	Water Color	7" 24 Water Soluble Pencil, Hex, Dipped, Stamping & Sharpened, marco lead, 3.7 mm lead. w/new brush
7120-36CB	Water Color	7" 36 Water Soluble Pencil, Hex, Dipped, Stamping & Sharpened, marco lead, 3.7 mm lead.
7120-12 TN	Water Color	7" 12 Water Soluble Pencil, Hex, Dipped, Stamping & Sharpened , marco lead, 3.7 mm lead.
7120-24 TN	Water Color	7" 24 Water Soluble Pencil, Hex, Dipped, Stamping & Sharpened, marco lead, 3.7 mm lead.
7120-36 TN	Water Color	7" 36 Water Soluble Pencil, Hex, Dipped, Stamping & Sharpened, marco lead, 3.7 mm lead.
9121-12CB	Water Color	12 Water soluble Bi- Color, 2.9mm lead, 1 side stamp Pencils (Triangle)
1250-24CB	Water Color	7" 24 watersoluble color pencil, tri, 2.9mm lead, painted, stamped*1, end cut & sharpened +brush
1250-36CB	Water Color	7" 36 watersoluble color pencil, tri, 2.9mm lead, painted, stamped*1, end cut & sharpened +brush
1251-12CB	Water Color	7" 12 bi-color (24 colors) watersoluble pencil, tri, 2.9mm lead, painted, stamped*1, end cut & sharpened + brush
1550-12CB	Water Color	7" 12 watersoluble color pencil, jumbo tri, 5.0mm lead, painted, stamped*1, end cut & sharpened with sharpener +brush

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Material List:

Item: Water Soluble 36+1 colored Pencils

Material No.	Material	Color	Location
M001	Materials intended to leave a trace	Red	W510-L
M002	Materials intended to leave a trace	Green	W546-L
M003	Materials intended to leave a trace	Blue	W533-L
M004	Materials intended to leave a trace	Black	W570-L
M005	Materials intended to leave a trace	Yellow	W504-L
M006	Materials intended to leave a trace	Orange	W506-L
M007	Materials intended to leave a trace	Brown	W558-L
M008	Materials intended to leave a trace	Hot Pink	W513-L
M009	Materials intended to leave a trace	Yellow Green	W549-L
M010	Materials intended to leave a trace	Light Blue	W535-L
M011	Materials intended to leave a trace	Purple	W528-L
M012	Materials intended to leave a trace	Blush	W518-L
M013	Materials intended to leave a trace	Vandyke Brown	W563-L
M014	Materials intended to leave a trace	Violet	W527-L
M015	Materials intended to leave a trace	Lavender	W521-L
M016	Materials intended to leave a trace	Carmine	W512-L
M017	Materials intended to leave a trace	Ultramarine	W530-L
M018	Materials intended to leave a trace	Emerald	W545-L
M019	Materials intended to leave a trace	Chrome Yellow	W505-L

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M020	Materials intended to leave a trace	Vermilion	W508-L
M021	Materials intended to leave a trace	Burnt Ochre	W553-L
M022	Materials intended to leave a trace	Brick Red	W560-L
M023	Materials intended to leave a trace	Silver Grey	W565-L
M024	Materials intended to leave a trace	White	W501-L
M025	Materials intended to leave a trace	Lemon Yellow	W503-L
M026	Materials intended to leave a trace	Burnt Sienna	W557-L
M027	Materials intended to leave a trace	Geranium Red	W511-L
M028	Materials intended to leave a trace	Grass Green	W543-L
M029	Materials intended to leave a trace	Moss Green	W548-L
M030	Materials intended to leave a trace	Claret	W525-L
M031	Materials intended to leave a trace	Kingfisher Blue	W534-L
M032	Materials intended to leave a trace	Prussian Blue	W529-L
M033	Materials intended to leave a trace	Dark Chocolate	W561-L
M034	Materials intended to leave a trace	Cerulean Blue	W537-L
M035	Materials intended to leave a trace	Deep Green	W542-L
M036	Materials intended to leave a trace	Tangerine	W507-L
M037	Materials intended to leave a trace	Syrma Blue	W532-L

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1. EN71-3:2013+A1:2014 Migration of 19 Elements

Test Method: with reference to EN71-3:2013+A1:2014, for inorganic elements, analyzed by ICP-OES or ICP-MS.

1) For dry, brittle, powder-like or pliable toy materials :

				Test No.	T001	T002	T003
				Material No.	W510-L	W546-L	W533-L
Test Parameter	Unit	RL	Regulatory Requirement	Result	Result	Result	
Aluminium (Al)	mg/kg	10	5625	1730	239	779	
Antimony (Sb)	mg/kg	1	45	n.d.	n.d.	n.d.	
Arsenic (As)	mg/kg	0.5	3.8	n.d.	n.d.	n.d.	
Barium (Ba)	mg/kg	2.5	1500	22.6	n.d.	n.d.	
Boron (B)	mg/kg	10	1200	n.d.	n.d.	n.d.	
Cadmium (Cd)	mg/kg	0.1	1.3	n.d.	n.d.	n.d.	
Chromium (III) (Cr (III))	mg/kg	1	37.5	n.d.(*2)	n.d.(*2)	n.d.(*2)	
Chromium (VI) (Cr (VI))	mg/kg	0.015	0.02	n.d.(*2)	n.d.(*2)	n.d.(*2)	
Cobalt (Co)	mg/kg	0.5	10.5	0.7	0.7	n.d.	
Copper (Cu)	mg/kg	2.5	622.5	6.0	25.4	97.7	
Lead (Pb)	mg/kg	0.5	13.5	0.6	0.6	n.d.	
Manganese (Mn)	mg/kg	2.5	1200	n.d.	n.d.	n.d.	
Mercury (Hg)	mg/kg	0.5	7.5	n.d.	n.d.	n.d.	
Nickel (Ni)	mg/kg	2.5	75	n.d.	n.d.	n.d.	
Selenium (Se)	mg/kg	2.5	37.5	n.d.	n.d.	n.d.	
Strontium (Sr)	mg/kg	2.5	4500	5.4	n.d.	n.d.	
Tin (Sn)	mg/kg	0.2	15000	n.d.	n.d.	n.d.	
Organic Tin [^]	mg/kg	0.2	0.9	-	-	-	
Zinc (Zn)	mg/kg	10	3750	46.1	n.d.	34.0	

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				Test No.	T004	T005	T006
				Material No.	W570-L	W504-L	W506-L
Test Parameter	Unit	RL	Regulatory Requirement	Result	Result	Result	
Aluminium (Al)	mg/kg	10	5625	156	112	401	
Antimony (Sb)	mg/kg	1	45	n.d.	n.d.	n.d.	
Arsenic (As)	mg/kg	0.5	3.8	n.d.	n.d.	n.d.	
Barium (Ba)	mg/kg	2.5	1500	n.d.	n.d.	5.1	
Boron (B)	mg/kg	10	1200	n.d.	n.d.	n.d.	
Cadmium (Cd)	mg/kg	0.1	1.3	n.d.	n.d.	n.d.	
Chromium (III) (Cr (III))	mg/kg	1	37.5	n.d.(*2)	n.d.(*2)	n.d.(*2)	
Chromium (VI) (Cr (VI))	mg/kg	0.015	0.02	n.d.(*2)	n.d.(*2)	n.d.(*2)	
Cobalt (Co)	mg/kg	0.5	10.5	0.5	0.6	n.d.	
Copper (Cu)	mg/kg	2.5	622.5	4.1	n.d.	3.8	
Lead (Pb)	mg/kg	0.5	13.5	n.d.	n.d.	n.d.	
Manganese (Mn)	mg/kg	2.5	1200	n.d.	n.d.	n.d.	
Mercury (Hg)	mg/kg	0.5	7.5	n.d.	n.d.	n.d.	
Nickel (Ni)	mg/kg	2.5	75	n.d.	n.d.	n.d.	
Selenium (Se)	mg/kg	2.5	37.5	n.d.	n.d.	n.d.	
Strontium (Sr)	mg/kg	2.5	4500	n.d.	n.d.	n.d.	
Tin (Sn)	mg/kg	0.2	15000	n.d.	n.d.	n.d.	
Organic Tin [^]	mg/kg	0.2	0.9	-	-	-	
Zinc (Zn)	mg/kg	10	3750	n.d.	n.d.	22.5	

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				Test No.	T007	T008	T009
				Material No.	W558-L	W513-L	W549-L
Test Parameter	Unit	RL	Regulatory Requirement	Result	Result	Result	Result
Aluminium (Al)	mg/kg	10	5625	837	234	197	
Antimony (Sb)	mg/kg	1	45	n.d.	n.d.	n.d.	
Arsenic (As)	mg/kg	0.5	3.8	n.d.	n.d.	n.d.	
Barium (Ba)	mg/kg	2.5	1500	61.8	n.d.	4.2	
Boron (B)	mg/kg	10	1200	n.d.	n.d.	n.d.	
Cadmium (Cd)	mg/kg	0.1	1.3	n.d.	n.d.	n.d.	
Chromium (III) (Cr (III))	mg/kg	1	37.5	n.d.(*2)	n.d.(*2)	n.d.(*2)	
Chromium (VI) (Cr (VI))	mg/kg	0.015	0.02	n.d.(*2)	n.d.(*2)	n.d.(*2)	
Cobalt (Co)	mg/kg	0.5	10.5	0.7	n.d.	n.d.	
Copper (Cu)	mg/kg	2.5	622.5	17.7	n.d.	11.9	
Lead (Pb)	mg/kg	0.5	13.5	0.6	n.d.	n.d.	
Manganese (Mn)	mg/kg	2.5	1200	4.2	n.d.	n.d.	
Mercury (Hg)	mg/kg	0.5	7.5	n.d.	n.d.	n.d.	
Nickel (Ni)	mg/kg	2.5	75	n.d.	n.d.	n.d.	
Selenium (Se)	mg/kg	2.5	37.5	n.d.	n.d.	n.d.	
Strontium (Sr)	mg/kg	2.5	4500	n.d.	n.d.	n.d.	
Tin (Sn)	mg/kg	0.2	15000	n.d.	n.d.	n.d.	
Organic Tin [^]	mg/kg	0.2	0.9	-	-	-	
Zinc (Zn)	mg/kg	10	3750	27.9	n.d.	11.1	

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				Test No.	T010	T011	T012
				Material No.	W535-L	W528-L	W518-L
Test Parameter	Unit	RL	Regulatory Requirement	Result	Result	Result	Result
Aluminium (Al)	mg/kg	10	5625	556	2700	262	
Antimony (Sb)	mg/kg	1	45	n.d.	n.d.	n.d.	
Arsenic (As)	mg/kg	0.5	3.8	n.d.	n.d.	n.d.	
Barium (Ba)	mg/kg	2.5	1500	n.d.	14.1	n.d.	
Boron (B)	mg/kg	10	1200	n.d.	n.d.	n.d.	
Cadmium (Cd)	mg/kg	0.1	1.3	n.d.	n.d.	n.d.	
Chromium (III) (Cr (III))	mg/kg	1	37.5	n.d.(*2)	n.d.(*2)	n.d.(*2)	
Chromium (VI) (Cr (VI))	mg/kg	0.015	0.02	n.d.(*2)	n.d.(*2)	n.d.(*2)	
Cobalt (Co)	mg/kg	0.5	10.5	n.d.	0.7	0.6	
Copper (Cu)	mg/kg	2.5	622.5	30.4	6.2	n.d.	
Lead (Pb)	mg/kg	0.5	13.5	n.d.	n.d.	n.d.	
Manganese (Mn)	mg/kg	2.5	1200	n.d.	n.d.	n.d.	
Mercury (Hg)	mg/kg	0.5	7.5	n.d.	n.d.	n.d.	
Nickel (Ni)	mg/kg	2.5	75	n.d.	n.d.	n.d.	
Selenium (Se)	mg/kg	2.5	37.5	n.d.	n.d.	n.d.	
Strontium (Sr)	mg/kg	2.5	4500	n.d.	n.d.	n.d.	
Tin (Sn)	mg/kg	0.2	15000	n.d.	n.d.	n.d.	
Organic Tin [^]	mg/kg	0.2	0.9	-	-	-	
Zinc (Zn)	mg/kg	10	3750	n.d.	29.4	167	

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				Test No.	T013	T014	T015
				Material No.	W563-L	W527-L	W521-L
Test Parameter	Unit	RL	Regulatory Requirement	Result	Result	Result	Result
Aluminium (Al)	mg/kg	10	5625	251	289	520	
Antimony (Sb)	mg/kg	1	45	n.d.	n.d.	n.d.	
Arsenic (As)	mg/kg	0.5	3.8	n.d.	n.d.	n.d.	
Barium (Ba)	mg/kg	2.5	1500	3.7	12.4	5.8	
Boron (B)	mg/kg	10	1200	n.d.	n.d.	n.d.	
Cadmium (Cd)	mg/kg	0.1	1.3	n.d.	n.d.	n.d.	
Chromium (III) (Cr (III))	mg/kg	1	37.5	n.d.(*2)	n.d.(*2)	n.d.(*2)	
Chromium (VI) (Cr (VI))	mg/kg	0.015	0.02	n.d.(*2)	n.d.(*2)	n.d.(*2)	
Cobalt (Co)	mg/kg	0.5	10.5	n.d.	0.5	n.d.	
Copper (Cu)	mg/kg	2.5	622.5	4.2	5.6	4.3	
Lead (Pb)	mg/kg	0.5	13.5	n.d.	n.d.	n.d.	
Manganese (Mn)	mg/kg	2.5	1200	n.d.	n.d.	n.d.	
Mercury (Hg)	mg/kg	0.5	7.5	n.d.	n.d.	n.d.	
Nickel (Ni)	mg/kg	2.5	75	n.d.	n.d.	n.d.	
Selenium (Se)	mg/kg	2.5	37.5	n.d.	n.d.	n.d.	
Strontium (Sr)	mg/kg	2.5	4500	9.1	n.d.	n.d.	
Tin (Sn)	mg/kg	0.2	15000	n.d.	n.d.	n.d.	
Organic Tin [^]	mg/kg	0.2	0.9	-	-	-	
Zinc (Zn)	mg/kg	10	3750	13.3	11.8	n.d.	

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				Test No.	T016	T017	T018
				Material No.	W512-L	W530-L	W545-L
Test Parameter	Unit	RL	Regulatory Requirement	Result	Result	Result	Result
Aluminium (Al)	mg/kg	10	5625	224	394	278	
Antimony (Sb)	mg/kg	1	45	n.d.	n.d.	n.d.	
Arsenic (As)	mg/kg	0.5	3.8	n.d.	n.d.	n.d.	
Barium (Ba)	mg/kg	2.5	1500	62.8	109	22.7	
Boron (B)	mg/kg	10	1200	n.d.	n.d.	n.d.	
Cadmium (Cd)	mg/kg	0.1	1.3	n.d.	n.d.	n.d.	
Chromium (III) (Cr (III))	mg/kg	1	37.5	n.d.(*2)	n.d.(*2)	n.d.(*2)	
Chromium (VI) (Cr (VI))	mg/kg	0.015	0.02	n.d.(*2)	n.d.(*2)	n.d.(*2)	
Cobalt (Co)	mg/kg	0.5	10.5	n.d.	0.6	n.d.	
Copper (Cu)	mg/kg	2.5	622.5	n.d.	24.1	20.9	
Lead (Pb)	mg/kg	0.5	13.5	n.d.	n.d.	n.d.	
Manganese (Mn)	mg/kg	2.5	1200	n.d.	n.d.	n.d.	
Mercury (Hg)	mg/kg	0.5	7.5	n.d.	n.d.	n.d.	
Nickel (Ni)	mg/kg	2.5	75	n.d.	n.d.	n.d.	
Selenium (Se)	mg/kg	2.5	37.5	n.d.	n.d.	n.d.	
Strontium (Sr)	mg/kg	2.5	4500	5.2	n.d.	n.d.	
Tin (Sn)	mg/kg	0.2	15000	n.d.	n.d.	n.d.	
Organic Tin [^]	mg/kg	0.2	0.9	-	-	-	
Zinc (Zn)	mg/kg	10	3750	10.6	n.d.	13.0	

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				Test No.	T019	T020	T021
				Material No.	W505-L	W508-L	W553-L
Test Parameter	Unit	RL	Regulatory Requirement	Result	Result	Result	Result
Aluminium (Al)	mg/kg	10	5625	864	1400	264	
Antimony (Sb)	mg/kg	1	45	n.d.	n.d.	n.d.	
Arsenic (As)	mg/kg	0.5	3.8	n.d.	n.d.	n.d.	
Barium (Ba)	mg/kg	2.5	1500	4.8	232	9.4	
Boron (B)	mg/kg	10	1200	n.d.	n.d.	n.d.	
Cadmium (Cd)	mg/kg	0.1	1.3	n.d.	n.d.	n.d.	
Chromium (III) (Cr (III))	mg/kg	1	37.5	n.d.(*2)	n.d.(*2)	n.d.(*2)	
Chromium (VI) (Cr (VI))	mg/kg	0.015	0.02	n.d.(*2)	n.d.(*2)	n.d.(*2)	
Cobalt (Co)	mg/kg	0.5	10.5	n.d.	n.d.	0.5	
Copper (Cu)	mg/kg	2.5	622.5	3.5	n.d.	3.4	
Lead (Pb)	mg/kg	0.5	13.5	n.d.	7.2	n.d.	
Manganese (Mn)	mg/kg	2.5	1200	n.d.	6.1	n.d.	
Mercury (Hg)	mg/kg	0.5	7.5	n.d.	n.d.	n.d.	
Nickel (Ni)	mg/kg	2.5	75	n.d.	n.d.	n.d.	
Selenium (Se)	mg/kg	2.5	37.5	n.d.	n.d.	n.d.	
Strontium (Sr)	mg/kg	2.5	4500	n.d.	14.3	3.1	
Tin (Sn)	mg/kg	0.2	15000	n.d.	n.d.	n.d.	
Organic Tin [^]	mg/kg	0.2	0.9	-	-	-	
Zinc (Zn)	mg/kg	10	3750	17.2	186	18.9	

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				Test No.	T022	T023	T024
				Material No.	W560-L	W565-L	W501-L
Test Parameter	Unit	RL	Regulatory Requirement	Result	Result	Result	Result
Aluminium (Al)	mg/kg	10	5625	236	252	172	
Antimony (Sb)	mg/kg	1	45	n.d.	n.d.	n.d.	
Arsenic (As)	mg/kg	0.5	3.8	n.d.	n.d.	n.d.	
Barium (Ba)	mg/kg	2.5	1500	4.6	n.d.	n.d.	
Boron (B)	mg/kg	10	1200	n.d.	n.d.	n.d.	
Cadmium (Cd)	mg/kg	0.1	1.3	n.d.	n.d.	n.d.	
Chromium (III) (Cr (III))	mg/kg	1	37.5	n.d.(*2)	n.d.(*2)	n.d.(*2)	
Chromium (VI) (Cr (VI))	mg/kg	0.015	0.02	n.d.(*2)	n.d.(*2)	n.d.(*2)	
Cobalt (Co)	mg/kg	0.5	10.5	0.6	n.d.	0.5	
Copper (Cu)	mg/kg	2.5	622.5	24.0	4.7	3.5	
Lead (Pb)	mg/kg	0.5	13.5	0.6	n.d.	n.d.	
Manganese (Mn)	mg/kg	2.5	1200	11.6	n.d.	n.d.	
Mercury (Hg)	mg/kg	0.5	7.5	n.d.	n.d.	n.d.	
Nickel (Ni)	mg/kg	2.5	75	n.d.	n.d.	n.d.	
Selenium (Se)	mg/kg	2.5	37.5	n.d.	n.d.	n.d.	
Strontium (Sr)	mg/kg	2.5	4500	3.6	n.d.	n.d.	
Tin (Sn)	mg/kg	0.2	15000	n.d.	n.d.	n.d.	
Organic Tin [^]	mg/kg	0.2	0.9	-	-	-	
Zinc (Zn)	mg/kg	10	3750	11.0	n.d.	12.3	

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				Test No.	T025	T026	T027
				Material No.	W503-L	W557-L	W511-L
Test Parameter	Unit	RL	Regulatory Requirement	Result	Result	Result	Result
Aluminium (Al)	mg/kg	10	5625	278	162	142	
Antimony (Sb)	mg/kg	1	45	n.d.	n.d.	n.d.	
Arsenic (As)	mg/kg	0.5	3.8	n.d.	n.d.	n.d.	
Barium (Ba)	mg/kg	2.5	1500	n.d.	n.d.	42.0	
Boron (B)	mg/kg	10	1200	n.d.	n.d.	n.d.	
Cadmium (Cd)	mg/kg	0.1	1.3	n.d.	n.d.	n.d.	
Chromium (III) (Cr (III))	mg/kg	1	37.5	n.d.(*2)	n.d.(*2)	n.d.(*2)	
Chromium (VI) (Cr (VI))	mg/kg	0.015	0.02	n.d.(*2)	n.d.(*2)	n.d.(*2)	
Cobalt (Co)	mg/kg	0.5	10.5	n.d.	n.d.	n.d.	
Copper (Cu)	mg/kg	2.5	622.5	6.2	4.3	n.d.	
Lead (Pb)	mg/kg	0.5	13.5	n.d.	n.d.	n.d.	
Manganese (Mn)	mg/kg	2.5	1200	n.d.	n.d.	n.d.	
Mercury (Hg)	mg/kg	0.5	7.5	n.d.	n.d.	n.d.	
Nickel (Ni)	mg/kg	2.5	75	4.1	n.d.	n.d.	
Selenium (Se)	mg/kg	2.5	37.5	n.d.	n.d.	n.d.	
Strontium (Sr)	mg/kg	2.5	4500	n.d.	n.d.	4.5	
Tin (Sn)	mg/kg	0.2	15000	n.d.	n.d.	n.d.	
Organic Tin [^]	mg/kg	0.2	0.9	-	-	-	
Zinc (Zn)	mg/kg	10	3750	n.d.	n.d.	n.d.	

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				Test No.	T028	T029	T030
				Material No.	W543-L	W548-L	W525-L
Test Parameter	Unit	RL	Regulatory Requirement	Result	Result	Result	Result
Aluminium (Al)	mg/kg	10	5625	226	206	811	
Antimony (Sb)	mg/kg	1	45	n.d.	n.d.	n.d.	
Arsenic (As)	mg/kg	0.5	3.8	n.d.	n.d.	n.d.	
Barium (Ba)	mg/kg	2.5	1500	7.5	56.7	32.0	
Boron (B)	mg/kg	10	1200	n.d.	n.d.	n.d.	
Cadmium (Cd)	mg/kg	0.1	1.3	n.d.	n.d.	n.d.	
Chromium (III) (Cr (III))	mg/kg	1	37.5	n.d.(*2)	n.d.(*2)	n.d.(*2)	
Chromium (VI) (Cr (VI))	mg/kg	0.015	0.02	n.d.(*2)	n.d.(*2)	n.d.(*2)	
Cobalt (Co)	mg/kg	0.5	10.5	n.d.	n.d.	n.d.	
Copper (Cu)	mg/kg	2.5	622.5	14.9	11.7	3.3	
Lead (Pb)	mg/kg	0.5	13.5	n.d.	n.d.	n.d.	
Manganese (Mn)	mg/kg	2.5	1200	n.d.	n.d.	n.d.	
Mercury (Hg)	mg/kg	0.5	7.5	n.d.	n.d.	n.d.	
Nickel (Ni)	mg/kg	2.5	75	n.d.	n.d.	n.d.	
Selenium (Se)	mg/kg	2.5	37.5	n.d.	n.d.	n.d.	
Strontium (Sr)	mg/kg	2.5	4500	n.d.	n.d.	2.9	
Tin (Sn)	mg/kg	0.2	15000	n.d.	n.d.	n.d.	
Organic Tin [^]	mg/kg	0.2	0.9	-	-	-	
Zinc (Zn)	mg/kg	10	3750	n.d.	10.2	19.8	

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				Test No.	T031	T032	T033
				Material No.	W534-L	W529-L	W561-L
Test Parameter	Unit	RL	Regulatory Requirement	Result	Result	Result	Result
Aluminium (Al)	mg/kg	10	5625	951	186	189	
Antimony (Sb)	mg/kg	1	45	n.d.	n.d.	n.d.	
Arsenic (As)	mg/kg	0.5	3.8	n.d.	n.d.	n.d.	
Barium (Ba)	mg/kg	2.5	1500	6.0	n.d.	n.d.	
Boron (B)	mg/kg	10	1200	n.d.	n.d.	n.d.	
Cadmium (Cd)	mg/kg	0.1	1.3	n.d.	n.d.	n.d.	
Chromium (III) (Cr (III))	mg/kg	1	37.5	n.d.(*2)	n.d.(*2)	n.d.(*2)	
Chromium (VI) (Cr (VI))	mg/kg	0.015	0.02	n.d.(*2)	n.d.(*2)	n.d.(*2)	
Cobalt (Co)	mg/kg	0.5	10.5	n.d.	n.d.	0.7	
Copper (Cu)	mg/kg	2.5	622.5	103	28.6	25.8	
Lead (Pb)	mg/kg	0.5	13.5	n.d.	n.d.	n.d.	
Manganese (Mn)	mg/kg	2.5	1200	3.5	n.d.	12.6	
Mercury (Hg)	mg/kg	0.5	7.5	n.d.	n.d.	n.d.	
Nickel (Ni)	mg/kg	2.5	75	n.d.	n.d.	n.d.	
Selenium (Se)	mg/kg	2.5	37.5	n.d.	n.d.	n.d.	
Strontium (Sr)	mg/kg	2.5	4500	11.2	n.d.	n.d.	
Tin (Sn)	mg/kg	0.2	15000	n.d.	n.d.	n.d.	
Organic Tin [^]	mg/kg	0.2	0.9	-	-	-	
Zinc (Zn)	mg/kg	10	3750	16.6	12.3	n.d.	

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				Test No.	T034	T035	T036
				Material No.	W537-L	W542-L	W507-L
Test Parameter	Unit	RL	Regulatory Requirement	Result	Result	Result	Result
Aluminium (Al)	mg/kg	10	5625	634	218	381	
Antimony (Sb)	mg/kg	1	45	n.d.	n.d.	n.d.	
Arsenic (As)	mg/kg	0.5	3.8	n.d.	n.d.	n.d.	
Barium (Ba)	mg/kg	2.5	1500	22.4	n.d.	3.0	
Boron (B)	mg/kg	10	1200	n.d.	n.d.	n.d.	
Cadmium (Cd)	mg/kg	0.1	1.3	n.d.	n.d.	n.d.	
Chromium (III) (Cr (III))	mg/kg	1	37.5	n.d.(*2)	n.d.(*2)	n.d.(*2)	
Chromium (VI) (Cr (VI))	mg/kg	0.015	0.02	n.d.(*2)	n.d.(*2)	n.d.(*2)	
Cobalt (Co)	mg/kg	0.5	10.5	n.d.	n.d.	0.5	
Copper (Cu)	mg/kg	2.5	622.5	38.5	98.8	10.2	
Lead (Pb)	mg/kg	0.5	13.5	n.d.	n.d.	n.d.	
Manganese (Mn)	mg/kg	2.5	1200	n.d.	n.d.	n.d.	
Mercury (Hg)	mg/kg	0.5	7.5	n.d.	n.d.	n.d.	
Nickel (Ni)	mg/kg	2.5	75	n.d.	n.d.	n.d.	
Selenium (Se)	mg/kg	2.5	37.5	n.d.	n.d.	n.d.	
Strontium (Sr)	mg/kg	2.5	4500	n.d.	8.0	4.5	
Tin (Sn)	mg/kg	0.2	15000	n.d.	n.d.	n.d.	
Organic Tin [^]	mg/kg	0.2	0.9	-	-	-	
Zinc (Zn)	mg/kg	10	3750	15.0	n.d.	62.7	

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				Test No.	T037
				Material No.	W532-L
Test Parameter	Unit	RL	Regulatory Requirement	Result	
Aluminium (Al)	mg/kg	10	5625	254	
Antimony (Sb)	mg/kg	1	45	n.d.	
Arsenic (As)	mg/kg	0.5	3.8	n.d.	
Barium (Ba)	mg/kg	2.5	1500	n.d.	
Boron (B)	mg/kg	10	1200	n.d.	
Cadmium (Cd)	mg/kg	0.1	1.3	n.d.	
Chromium (III) (Cr (III))	mg/kg	1	37.5	n.d.(*2)	
Chromium (VI) (Cr (VI))	mg/kg	0.015	0.02	n.d.(*2)	
Cobalt (Co)	mg/kg	0.5	10.5	n.d.	
Copper (Cu)	mg/kg	2.5	622.5	10.5	
Lead (Pb)	mg/kg	0.5	13.5	n.d.	
Manganese (Mn)	mg/kg	2.5	1200	n.d.	
Mercury (Hg)	mg/kg	0.5	7.5	n.d.	
Nickel (Ni)	mg/kg	2.5	75	n.d.	
Selenium (Se)	mg/kg	2.5	37.5	n.d.	
Strontium (Sr)	mg/kg	2.5	4500	n.d.	
Tin (Sn)	mg/kg	0.2	15000	n.d.	
Organic Tin [^]	mg/kg	0.2	0.9	-	
Zinc (Zn)	mg/kg	10	3750	12.6	

Abbreviation: n.d. = Not Detected (< RL)

RL = Reporting Limit

mg/kg denotes milligram per kilogram

[^] denotes Organic tin are not necessary to be determined when the Tin concentration is less than calculated limit (0.3 mg/kg)

Remark:

*1 The cadmium requirement is following 2012/7/EU, as of 3 Mar 2012. This restriction will come into effect starting from 20 July 2013 onwards.

*2 Confirmation of Cr(III) and Cr(VI) content has been performed with reference to EN71-3:2013+A1:2014, Annex F (analyzed by LC-ICP-MS or IC-ICP-MS/MS). Cr(III) content was confirmed by calculation.

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2.EN 71 - 9 + A1/2007; 10-11/2005 Table 2B Colourants

Test Method: EN 71 - 10 and 11 : 2005 for Table 2B Colourants

Test Result:

					Test No.	T001	T002	T003
					Material No.	W510-L + W546-L + W533-L	W570-L + W504-L + W506-L	W558-L + W513-L + W549-L
Test Parameter	CAS No.	Unit	RL	Regulatory Requirement	Result	Result	Result	
Disperse Blue 1	2475-45-8	mg/kg	10	10 (Action Limit)	n.d.	n.d.	n.d.	
Disperse Blue 3	2475-46-9	mg/kg	10	10 (Action Limit)	n.d.	n.d.	n.d.	
Disperse Blue 106	12223-01-7	mg/kg	10	10 (Action Limit)	n.d.	n.d.	n.d.	
Disperse Blue 124	61951-51-7	mg/kg	10	10 (Action Limit)	n.d.	n.d.	n.d.	
Disperse Orange 3	730-40-5	mg/kg	10	10 (Action Limit)	n.d.	n.d.	n.d.	
Disperse Orange 37/76	12223-33-5; 13301-61-6	mg/kg	10	10 (Action Limit)	n.d.	n.d.	n.d.	
Disperse Yellow 3	2832-40-8	mg/kg	10	10 (Action Limit)	n.d.	n.d.	n.d.	
Disperse Red 1	2872-52-8	mg/kg	10	10 (Action Limit)	n.d.	n.d.	n.d.	
Solvent Yellow 1	60-09-3	mg/kg	10	10 (Action Limit)	n.d.	n.d.	n.d.	
Solvent Yellow 2	60-11-7	mg/kg	10	10 (Action Limit)	n.d.	n.d.	n.d.	
Solvent Yellow 3	97-56-3	mg/kg	10	10 (Action Limit)	n.d.	n.d.	n.d.	
Basic Red 9	569-61-9	mg/kg	10	10 (Action Limit)	n.d.	n.d.	n.d.	
Basic Violet 1	8004-87-3	mg/kg	10	10 (Action Limit)	n.d.	n.d.	n.d.	
Basic Violet 3	548-62-9	mg/kg	10	10 (Action Limit)	n.d.	n.d.	n.d.	
Acid Red 26	3761-53-3	mg/kg	10	10 (Action Limit)	n.d.	n.d.	n.d.	
Acid Violet 49	1694-09-3	mg/kg	10	10 (Action Limit)	n.d.	n.d.	n.d.	
Disperse Blue 35*	12222-75-2	mg/kg	10	10 (Action Limit)	n.d.	n.d.	n.d.	

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					Test No.	T004	T005	T006
					Material No.	W535-L + W528-L + W518-L	W563-L + W527-L + W521-L	W512-L + W530-L + W545-L
Test Parameter	CAS No.	Unit	RL	Regulatory Requirement	Result	Result	Result	
Disperse Blue 1	2475-45-8	mg/kg	10	10 (Action Limit)	n.d.	n.d.	n.d.	
Disperse Blue 3	2475-46-9	mg/kg	10	10 (Action Limit)	n.d.	n.d.	n.d.	
Disperse Blue 106	12223-01-7	mg/kg	10	10 (Action Limit)	n.d.	n.d.	n.d.	
Disperse Blue 124	61951-51-7	mg/kg	10	10 (Action Limit)	n.d.	n.d.	n.d.	
Disperse Orange 3	730-40-5	mg/kg	10	10 (Action Limit)	n.d.	n.d.	n.d.	
Disperse Orange 37/76	12223-33-5; 13301-61-6	mg/kg	10	10 (Action Limit)	n.d.	n.d.	n.d.	
Disperse Yellow 3	2832-40-8	mg/kg	10	10 (Action Limit)	n.d.	n.d.	n.d.	
Disperse Red 1	2872-52-8	mg/kg	10	10 (Action Limit)	n.d.	n.d.	n.d.	
Solvent Yellow 1	60-09-3	mg/kg	10	10 (Action Limit)	n.d.	n.d.	n.d.	
Solvent Yellow 2	60-11-7	mg/kg	10	10 (Action Limit)	n.d.	n.d.	n.d.	
Solvent Yellow 3	97-56-3	mg/kg	10	10 (Action Limit)	n.d.	n.d.	n.d.	
Basic Red 9	569-61-9	mg/kg	10	10 (Action Limit)	n.d.	n.d.	n.d.	
Basic Violet 1	8004-87-3	mg/kg	10	10 (Action Limit)	n.d.	n.d.	n.d.	
Basic Violet 3	548-62-9	mg/kg	10	10 (Action Limit)	n.d.	n.d.	n.d.	
Acid Red 26	3761-53-3	mg/kg	10	10 (Action Limit)	n.d.	n.d.	n.d.	
Acid Violet 49	1694-09-3	mg/kg	10	10 (Action Limit)	n.d.	n.d.	n.d.	
Disperse Blue 35*	12222-75-2	mg/kg	10	10 (Action Limit)	n.d.	n.d.	n.d.	

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Test Parameter	CAS No.	Unit	RL	Regulatory Requirement	Test No.	T007	T008	T009
					Material No.	W505-L + W508-L + W553-L	W560-L + W565-L + W501-L	W503-L + W557-L + W511-L
					Result	Result	Result	Result
Disperse Blue 1	2475-45-8	mg/kg	10	10 (Action Limit)	n.d.	n.d.	n.d.	n.d.
Disperse Blue 3	2475-46-9	mg/kg	10	10 (Action Limit)	n.d.	n.d.	n.d.	n.d.
Disperse Blue 106	12223-01-7	mg/kg	10	10 (Action Limit)	n.d.	n.d.	n.d.	n.d.
Disperse Blue 124	61951-51-7	mg/kg	10	10 (Action Limit)	n.d.	n.d.	n.d.	n.d.
Disperse Orange 3	730-40-5	mg/kg	10	10 (Action Limit)	n.d.	n.d.	n.d.	n.d.
Disperse Orange 37/76	12223-33-5; 13301-61-6	mg/kg	10	10 (Action Limit)	n.d.	n.d.	n.d.	n.d.
Disperse Yellow 3	2832-40-8	mg/kg	10	10 (Action Limit)	n.d.	n.d.	n.d.	n.d.
Disperse Red 1	2872-52-8	mg/kg	10	10 (Action Limit)	n.d.	n.d.	n.d.	n.d.
Solvent Yellow 1	60-09-3	mg/kg	10	10 (Action Limit)	n.d.	n.d.	n.d.	n.d.
Solvent Yellow 2	60-11-7	mg/kg	10	10 (Action Limit)	n.d.	n.d.	n.d.	n.d.
Solvent Yellow 3	97-56-3	mg/kg	10	10 (Action Limit)	n.d.	n.d.	n.d.	n.d.
Basic Red 9	569-61-9	mg/kg	10	10 (Action Limit)	n.d.	n.d.	n.d.	n.d.
Basic Violet 1	8004-87-3	mg/kg	10	10 (Action Limit)	n.d.	n.d.	n.d.	n.d.
Basic Violet 3	548-62-9	mg/kg	10	10 (Action Limit)	n.d.	n.d.	n.d.	n.d.
Acid Red 26	3761-53-3	mg/kg	10	10 (Action Limit)	n.d.	n.d.	n.d.	n.d.
Acid Violet 49	1694-09-3	mg/kg	10	10 (Action Limit)	n.d.	n.d.	n.d.	n.d.
Disperse Blue 35*	12222-75-2	mg/kg	10	10 (Action Limit)	n.d.	n.d.	n.d.	n.d.

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					Test No.	T010	T011	T012
					Material No.	W543-L + W548-L + W525-L	W534-L + W529-L + W561-L	W537-L + W542-L
Test Parameter	CAS No.	Unit	RL	Regulatory Requirement	Result	Result	Result	
Disperse Blue 1	2475-45-8	mg/kg	10	10 (Action Limit)	n.d.	n.d.	n.d.	
Disperse Blue 3	2475-46-9	mg/kg	10	10 (Action Limit)	n.d.	n.d.	n.d.	
Disperse Blue 106	12223-01-7	mg/kg	10	10 (Action Limit)	n.d.	n.d.	n.d.	
Disperse Blue 124	61951-51-7	mg/kg	10	10 (Action Limit)	n.d.	n.d.	n.d.	
Disperse Orange 3	730-40-5	mg/kg	10	10 (Action Limit)	n.d.	n.d.	n.d.	
Disperse Orange 37/76	12223-33-5; 13301-61-6	mg/kg	10	10 (Action Limit)	n.d.	n.d.	n.d.	
Disperse Yellow 3	2832-40-8	mg/kg	10	10 (Action Limit)	n.d.	n.d.	n.d.	
Disperse Red 1	2872-52-8	mg/kg	10	10 (Action Limit)	n.d.	n.d.	n.d.	
Solvent Yellow 1	60-09-3	mg/kg	10	10 (Action Limit)	n.d.	n.d.	n.d.	
Solvent Yellow 2	60-11-7	mg/kg	10	10 (Action Limit)	n.d.	n.d.	n.d.	
Solvent Yellow 3	97-56-3	mg/kg	10	10 (Action Limit)	n.d.	n.d.	n.d.	
Basic Red 9	569-61-9	mg/kg	10	10 (Action Limit)	n.d.	n.d.	n.d.	
Basic Violet 1	8004-87-3	mg/kg	10	10 (Action Limit)	n.d.	n.d.	n.d.	
Basic Violet 3	548-62-9	mg/kg	10	10 (Action Limit)	n.d.	n.d.	n.d.	
Acid Red 26	3761-53-3	mg/kg	10	10 (Action Limit)	n.d.	n.d.	n.d.	
Acid Violet 49	1694-09-3	mg/kg	10	10 (Action Limit)	n.d.	n.d.	n.d.	
Disperse Blue 35*	12222-75-2	mg/kg	10	10 (Action Limit)	n.d.	n.d.	n.d.	

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					Test No.	T013
					Material No.	W507-L + W532-L
Test Parameter	CAS No.	Unit	RL	Regulatory Requirement	Result	
Disperse Blue 1	2475-45-8	mg/kg	10	10 (Action Limit)	n.d.	
Disperse Blue 3	2475-46-9	mg/kg	10	10 (Action Limit)	n.d.	
Disperse Blue 106	12223-01-7	mg/kg	10	10 (Action Limit)	n.d.	
Disperse Blue 124	61951-51-7	mg/kg	10	10 (Action Limit)	n.d.	
Disperse Orange 3	730-40-5	mg/kg	10	10 (Action Limit)	n.d.	
Disperse Orange 37/76	12223-33-5; 13301-61-6	mg/kg	10	10 (Action Limit)	n.d.	
Disperse Yellow 3	2832-40-8	mg/kg	10	10 (Action Limit)	n.d.	
Disperse Red 1	2872-52-8	mg/kg	10	10 (Action Limit)	n.d.	
Solvent Yellow 1	60-09-3	mg/kg	10	10 (Action Limit)	n.d.	
Solvent Yellow 2	60-11-7	mg/kg	10	10 (Action Limit)	n.d.	
Solvent Yellow 3	97-56-3	mg/kg	10	10 (Action Limit)	n.d.	
Basic Red 9	569-61-9	mg/kg	10	10 (Action Limit)	n.d.	
Basic Violet 1	8004-87-3	mg/kg	10	10 (Action Limit)	n.d.	
Basic Violet 3	548-62-9	mg/kg	10	10 (Action Limit)	n.d.	
Acid Red 26	3761-53-3	mg/kg	10	10 (Action Limit)	n.d.	
Acid Violet 49	1694-09-3	mg/kg	10	10 (Action Limit)	n.d.	
Disperse Blue 35*	12222-75-2	mg/kg	10	10 (Action Limit)	n.d.	

Abbreviation: n.d. = Not Detected (< Reporting Limit)
 RL = Reporting Limit
 mg/kg = milligram per kilogram
 NA = Not Applicable

Remark:

- * According to the BfR-recommendations (Bundesinstitut für Risikobewertung), Disperse blue 35 is analysed additionally.

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3.EN 71 - 9 + A1/2007; 10-11/2005 Table 2C Primary Aromatic Amines

Test Method: EN 71 - 10 and 11 : 2005 for Table 2C Primary Aromatic Amines

Test Result:

					Test No.	T001	T002	T003
					Material No.	W510-L + W546-L + W533-L	W570-L + W504-L + W506-L	W558-L + W513-L + W549-L
Test Parameter	CAS No.	Unit	RL	Regulatory Requirement	Result	Result	Result	
Benzidine	92-87-5	mg/kg	5	5 (Action Limit)	n.d.	n.d.	n.d.	
2-Naphthylamine	91-59-8	mg/kg	5	5 (Action Limit)	n.d.	n.d.	n.d.	
4-Chloroaniline	106-47-8	mg/kg	5	5 (Action Limit)	n.d.	n.d.	n.d.	
3,3'-Dichlorobenzidine	91-94-1	mg/kg	5	5 (Action Limit)	n.d.	n.d.	n.d.	
3,3'-Dimethoxybenzidine	119-90-4	mg/kg	5	5 (Action Limit)	n.d.	n.d.	n.d.	
3,3'-Dimethylbenzidine	119-93-7	mg/kg	5	5 (Action Limit)	n.d.	n.d.	n.d.	
o-Toluidine	95-53-4	mg/kg	5	5 (Action Limit)	n.d.	n.d.	n.d.	
2-Methoxyaniline (o-Anisidine)	90-04-0	mg/kg	5	5 (Action Limit)	n.d.	n.d.	n.d.	
Aniline	62-53-3	mg/kg	5	5 (Action Limit)	n.d.	n.d.	n.d.	

					Test No.	T004	T005	T006
					Material No.	W535-L + W528-L + W518-L	W563-L + W527-L + W521-L	W512-L + W530-L + W545-L
Test Parameter	CAS No.	Unit	RL	Regulatory Requirement	Result	Result	Result	
Benzidine	92-87-5	mg/kg	5	5 (Action Limit)	n.d.	n.d.	n.d.	
2-Naphthylamine	91-59-8	mg/kg	5	5 (Action Limit)	n.d.	n.d.	n.d.	
4-Chloroaniline	106-47-8	mg/kg	5	5 (Action Limit)	n.d.	n.d.	n.d.	
3,3'-Dichlorobenzidine	91-94-1	mg/kg	5	5 (Action Limit)	n.d.	n.d.	n.d.	
3,3'-Dimethoxybenzidine	119-90-4	mg/kg	5	5 (Action Limit)	n.d.	n.d.	n.d.	
3,3'-Dimethylbenzidine	119-93-7	mg/kg	5	5 (Action Limit)	n.d.	n.d.	n.d.	
o-Toluidine	95-53-4	mg/kg	5	5 (Action Limit)	n.d.	n.d.	n.d.	
2-Methoxyaniline (o-Anisidine)	90-04-0	mg/kg	5	5 (Action Limit)	n.d.	n.d.	n.d.	
Aniline	62-53-3	mg/kg	5	5 (Action Limit)	n.d.	n.d.	n.d.	

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Test No.					T007	T008	T009
Material No.					W505-L + W508-L + W553-L	W560-L + W565-L + W501-L	W503-L + W557-L + W511-L
Test Parameter	CAS No.	Unit	RL	Regulatory Requirement	Result	Result	Result
Benzidine	92-87-5	mg/kg	5	5 (Action Limit)	n.d.	n.d.	n.d.
2-Naphthylamine	91-59-8	mg/kg	5	5 (Action Limit)	n.d.	n.d.	n.d.
4-Chloroaniline	106-47-8	mg/kg	5	5 (Action Limit)	n.d.	n.d.	n.d.
3,3'-Dichlorobenzidine	91-94-1	mg/kg	5	5 (Action Limit)	n.d.	n.d.	n.d.
3,3'-Dimethoxybenzidine	119-90-4	mg/kg	5	5 (Action Limit)	n.d.	n.d.	n.d.
3,3'-Dimethylbenzidine	119-93-7	mg/kg	5	5 (Action Limit)	n.d.	n.d.	n.d.
o-Toluidine	95-53-4	mg/kg	5	5 (Action Limit)	n.d.	n.d.	n.d.
2-Methoxyaniline (o-Anisidine)	90-04-0	mg/kg	5	5 (Action Limit)	n.d.	n.d.	n.d.
Aniline	62-53-3	mg/kg	5	5 (Action Limit)	n.d.	n.d.	n.d.

Test No.					T010	T011	T012
Material No.					W543-L + W548-L + W525-L	W534-L + W529-L + W561-L	W537-L + W542-L
Test Parameter	CAS No.	Unit	RL	Regulatory Requirement	Result	Result	Result
Benzidine	92-87-5	mg/kg	5	5 (Action Limit)	n.d.	n.d.	n.d.
2-Naphthylamine	91-59-8	mg/kg	5	5 (Action Limit)	n.d.	n.d.	n.d.
4-Chloroaniline	106-47-8	mg/kg	5	5 (Action Limit)	n.d.	n.d.	n.d.
3,3'-Dichlorobenzidine	91-94-1	mg/kg	5	5 (Action Limit)	n.d.	n.d.	n.d.
3,3'-Dimethoxybenzidine	119-90-4	mg/kg	5	5 (Action Limit)	n.d.	n.d.	n.d.
3,3'-Dimethylbenzidine	119-93-7	mg/kg	5	5 (Action Limit)	n.d.	n.d.	n.d.
o-Toluidine	95-53-4	mg/kg	5	5 (Action Limit)	n.d.	n.d.	n.d.
2-Methoxyaniline (o-Anisidine)	90-04-0	mg/kg	5	5 (Action Limit)	n.d.	n.d.	n.d.
Aniline	62-53-3	mg/kg	5	5 (Action Limit)	n.d.	n.d.	n.d.

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					Test No.	T013
					Material No.	W507-L + W532-L
Test Parameter	CAS No.	Unit	RL	Regulatory Requirement	Result	
Benzidine	92-87-5	mg/kg	5	5 (Action Limit)	n.d.	
2-Naphthylamine	91-59-8	mg/kg	5	5 (Action Limit)	n.d.	
4-Chloroaniline	106-47-8	mg/kg	5	5 (Action Limit)	n.d.	
3,3'-Dichlorobenzidine	91-94-1	mg/kg	5	5 (Action Limit)	n.d.	
3,3'-Dimethoxybenzidine	119-90-4	mg/kg	5	5 (Action Limit)	n.d.	
3,3'-Dimethylbenzidine	119-93-7	mg/kg	5	5 (Action Limit)	n.d.	
o-Toluidine	95-53-4	mg/kg	5	5 (Action Limit)	n.d.	
2-Methoxyaniline (o-Anisidine)	90-04-0	mg/kg	5	5 (Action Limit)	n.d.	
Aniline	62-53-3	mg/kg	5	5 (Action Limit)	n.d.	

Abbreviation: n.d. = Not Detected (< Reporting Limit)
 RL = Reporting Limit
 mg/kg = milligram per kilogram
 NA = Not Applicable

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4.ASTM F963-11 Sect. 4.3.5.2 and CPSIA Sect. 101: Total lead content in substrate materials

Test Method: CPSC-CH-E1001-08.3 and CPSC-CH-E1002-08.3 (Microwave method)

Test result

ASTM F963-11 Sect. 4.3.5.2	Total lead content in substrate materials	PASS
CPSIA Sect. 101	Total lead content in substrate materials	PASS

Test No.	Material No.	Test Parameter	Unit	RL	Regulatory Requirement	Test Result
T001	W510-L + W546-L + W533-L	Total Pb	ppm	10	100	n.d.
T002	W570-L + W504-L + W506-L	Total Pb	ppm	10	100	n.d.
T003	W558-L + W513-L + W549-L	Total Pb	ppm	10	100	n.d.
T004	W535-L + W528-L + W518-L	Total Pb	ppm	10	100	n.d.
T005	W563-L + W527-L + W521-L	Total Pb	ppm	10	100	n.d.
T006	W512-L + W530-L + W545-L	Total Pb	ppm	10	100	n.d.
T007	W505-L + W508-L + W553-L	Total Pb	ppm	10	100	n.d.
T008	W560-L + W565-L + W501-L	Total Pb	ppm	10	100	n.d.
T009	W503-L + W557-L + W511-L	Total Pb	ppm	10	100	n.d.
T010	W543-L + W548-L + W525-L	Total Pb	ppm	10	100	n.d.
T011	W534-L + W529-L + W561-L	Total Pb	ppm	10	100	n.d.
T012	W537-L + W542-L	Total Pb	ppm	10	100	n.d.
T013	W507-L + W532-L	Total Pb	ppm	10	100	n.d.

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Abbreviation: n.d. = Not Detected (< RL)
 RL = Reporting Limit
 ppm = parts per million

Remark:

Requirement according to Consumer Product Safety Improvement Act 2008 Public Law 110-314, section 101, is summarized below:

Effective Date	Maximum Permissible Limit Lead in accessible substrate materials
180 days after enactment/10 Feb 2009	600 ppm
1 year after enactment/14 Aug 2009	300 ppm
3 years after enactment/14 Aug 2011	100 ppm

- *1 According to Consumer Product Safety Commission, exemptions for lead as used in certain parts of children's electronic devices, the following lead-containing components are granted the exemptions :
- Glass of cathode ray tubes, electronic components and fluorescent tubes
 - As an alloying element in steel, the maximum amount of lead shall be less than 0.35% by weight (3,500 ppm);
 - Used in the manufacture of aluminum, the maximum amount of lead shall be less than 0.4% by weight (4,000 ppm);
 - Used in copper-based alloys, the maximum amount of lead shall be less than 4% by weight (40,000 ppm);
 - Lead-bronze bearing shells and bushings;
 - Compliant pin connector systems;
- *2 According to Consumer Product Safety Commission, the following materials are exempted based on they are untreated and unadulterated with respect to the addition of materials or chemicals, including pigments, dyes, coatings, finishes or any other substance, and that do not undergo any processing that could result in the addition of lead into the product or material:
- Precious gemstones: diamond, ruby, sapphire or emeralds;
 - Semiprecious gemstones provided that the mineral or material is not based on lead and is not associated with mineral based on lead or lead compounds;
 - Natural or cultured pearls;
 - Wood;
 - Paper and similar materials made from wood or cellulosic fiber;
 - Dyed or undyed textiles (cotton, wool, hemp, nylon, yam, etc.);
 - CMYK process printing inks;
- *3 According to H.R. 2715, the following functional purpose children's products are granted the exemptions:
- Off-highway motorized vehicles;
 - Bicycles and related products (the lead limit for metal components described in June 20, 2009 "Notice of Stay of Enforcement Pertaining to Bicycles and Related Products" continue to be applied until December 31, 2011. After the date, these metal components must meet a 300 ppm total lead limit.);
 - Resale of used children's products (excluding children's jewelry or any children's product for which known to be violated the lead limit).
- *4 According to Consumer Product Safety Commission, the aluminum alloy components on children's ride-on tractors, children's ride-on cars, and other ride-on toys for children ages 3 years and older are granted to have a 300 ppm lead limit.

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5.Banned azo dyes (1907/2006/EC) (modified)

 Test Method: EN 14362-1:2012
 EN 14362-3:2012

Test result:

Test No.	Material No.	Test Parameter	Method	Unit	RL	Customer's Requirement	Result
T001	W510-L + W546-L + W533-L	Azo dyes	EN 14362-1	mg/kg	5	30	n.d.
T002	W570-L + W504-L + W506-L	Azo dyes	EN 14362-1,EN 14362-3	mg/kg	5	30	n.d.
T003	W558-L + W513-L + W549-L	Azo dyes	EN 14362-1	mg/kg	5	30	n.d.
T004	W535-L + W528-L + W518-L	Azo dyes	EN 14362-1	mg/kg	5	30	n.d.
T005	W563-L + W527-L + W521-L	Azo dyes	EN 14362-1	mg/kg	5	30	n.d.
T006	W512-L + W530-L + W545-L	Azo dyes	EN 14362-1	mg/kg	5	30	n.d.
T007	W505-L + W508-L + W553-L	Azo dyes	EN 14362-1,EN 14362-3	mg/kg	5	30	n.d.
T008	W560-L + W565-L + W501-L	Azo dyes	EN 14362-1	mg/kg	5	30	n.d.
T009	W503-L + W557-L + W511-L	Azo dyes	EN 14362-1	mg/kg	5	30	n.d.
T010	W543-L	Azo dyes	EN 14362-1	mg/kg	5	30	n.d.

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	+ W548-L + W525-L						
T011	W534-L + W529-L + W561-L	Azo dyes	EN 14362-1	mg/kg	5	30	n.d.
T012	W537-L + W542-L	Azo dyes	EN 14362-1	mg/kg	5	30	n.d.
T013	W507-L + W532-L	Azo dyes	EN 14362-1	mg/kg	5	30	n.d.

Abbreviation: n.d. = not detected (< Reporting Limit)
 RL = Reporting Limit
 mg/kg = milligram per kilogram

Remark:

- * The CAS-number 97-56-3 (A5) and 99-55-8 (A6) are further reduced to CAS-number 95-53-4 (A18) and 95-80-7 (A19).
- ** Azo colorants that are able to form CAS-number 60-09-03 (A22), generate under the condition of this method CAS-number 62-53-3 (A25) and 106-50-3 (A26).
- *** Azo colorants that are able to form 4-aminoazobenzene (A22), is confirmed by EN 14362-3:2012 / ISO 17234-2:2011.
- **** Azo colorants are detected & quantified by GC/MS and confirmed by LC/MS.

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^ Additional azo colorants were tested according to customer's requirement.

ID	Azo colorant	CAS No.	ID	Azo colorant	CAS No.
A1	biphenyl-4-ylamine / 4-aminobiphenyl / xenylamine	92-67-1	A14	p-cresidine	120-71-8
A2	benzidine	92-87-5	A15	4,4'-methylene-bis-(2-chloro-aniline) / 2,2'-dichloro-4,4'-methylene-dianiline	101-14-4
A3	4-chloro-o-toluidine	95-69-2	A16	4,4'-oxydianiline	101-80-4
A4	2-naphthylamine	91-59-8	A17	4,4'-thiodianiline	139-65-1
A5*	o-aminoazotoluene / 4-amino-2',3'-dimethylazobenzene / 4-o-tolylazo-o-toluidine	97-56-3	A18	o-toluidine / 2-aminotoluene	95-53-4
A6*	5-nitro-o-toluidine	99-55-8	A19	4-methyl-m-phenylenediamine	95-80-7
A7	4-chloroaniline	106-47-8	A20	2,4,5-trimethylaniline	137-17-7
A8	4-methoxy-m-phenylenediamine	615-05-4	A21	o-anisidine / 2-methoxyaniline	90-04-0
A9	4,4'-methylenedianiline / 4,4'-diaminodiphenylmethane	101-77-9	A22**	4-aminoazobenzene	60-09-3
A10	3,3'-dichlorobenzidine / 3,3'-dichlorobiphenyl-4,4'-ylenediamine	91-94-1	A23^	2,4-xylidine	95-68-1
A11	3,3'-dimethoxybenzidine	119-90-4	A24^	2,6-xylidine	87-62-7
A12	3,3'-dimethylbenzidine / 4,4'-bi-o-toluidine	119-93-7	A25	Aniline	62-53-3
A13	4,4'-methylenedi-o-toluidine	838-88-0	A26	4-aminoaniline	106-50-3

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6.Total Cadmium Content

Test Method: EN 1122:2001 (method B)

Test Result:

Test No.	Material No.	Test Parameter	Unit	RL	Regulatory Requirement	Test Result
T001	W510-L + W546-L + W533-L	Trial 1	mg/kg	10	100	n.d.
		Trial 2	mg/kg	10	100	n.d.
		Average	mg/kg	10	100	n.d.
T002	W570-L + W504-L + W506-L	Trial 1	mg/kg	10	100	n.d.
		Trial 2	mg/kg	10	100	n.d.
		Average	mg/kg	10	100	n.d.
T003	W558-L + W513-L + W549-L	Trial 1	mg/kg	10	100	n.d.
		Trial 2	mg/kg	10	100	n.d.
		Average	mg/kg	10	100	n.d.
T004	W535-L + W528-L + W518-L	Trial 1	mg/kg	10	100	n.d.
		Trial 2	mg/kg	10	100	n.d.
		Average	mg/kg	10	100	n.d.
T005	W563-L + W527-L + W521-L	Trial 1	mg/kg	10	100	n.d.
		Trial 2	mg/kg	10	100	n.d.
		Average	mg/kg	10	100	n.d.
T006	W512-L + W530-L + W545-L	Trial 1	mg/kg	10	100	n.d.
		Trial 2	mg/kg	10	100	n.d.
		Average	mg/kg	10	100	n.d.
T007	W505-L + W508-L + W553-L	Trial 1	mg/kg	10	100	n.d.
		Trial 2	mg/kg	10	100	n.d.
		Average	mg/kg	10	100	n.d.
T008	W560-L + W565-L + W501-L	Trial 1	mg/kg	10	100	n.d.
		Trial 2	mg/kg	10	100	n.d.
		Average	mg/kg	10	100	n.d.
T009	W503-L + W557-L + W511-L	Trial 1	mg/kg	10	100	n.d.
		Trial 2	mg/kg	10	100	n.d.
		Average	mg/kg	10	100	n.d.
T010	W543-L + W548-L + W525-L	Trial 1	mg/kg	10	100	n.d.
		Trial 2	mg/kg	10	100	n.d.
		Average	mg/kg	10	100	n.d.
T011	W534-L + W529-L + W561-L	Trial 1	mg/kg	10	100	n.d.
		Trial 2	mg/kg	10	100	n.d.
		Average	mg/kg	10	100	n.d.

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Test No.	Material No.	Test Parameter	Unit	RL	Regulatory Requirement	Test Result
T012	W537-L + W542-L	Trial 1	mg/kg	10	100	n.d.
		Trial 2	mg/kg	10	100	n.d.
		Average	mg/kg	10	100	n.d.
T013	W507-L + W532-L	Trial 1	mg/kg	10	100	n.d.
		Trial 2	mg/kg	10	100	n.d.
		Average	mg/kg	10	100	n.d.

Abbreviation: n.d. = not detected (< Reporting Limit)
 RL = Reporting Limit
 mg/kg = milligram per kilogram

Remark:

*Regulations on Cadmium

		Maximum Permissible Limit				
EU	Legislation	Plastic materials	Paint (wet state)	Paint on the painted articles	Paint (high zinc content)	Metal parts of jewellery and imitation jewellery articles and hair accessories
EC	REACH regulation (EC) No. 1907/2006 Annex XVII Item 23 and its amendments (EC) No. 552/2009, (EU) No. 494/2011 and (EU) No. 835/2012	100mg/kg	N.D.	1000mg/kg	1000mg/kg	100mg/kg

		Maximum Permissible Limit
Country	Legislation	Paint, plastic, plating/ coating of surface treatment
Germany	Germany Chemikalien-Verbotsverordnung - ChemVerbotsV, Anhang Abschnitt 18, Okt 1993	100mg/kg
Switzerland	Switzerland Chemikalien-Risikoreduktions-Verordnung- ChemRRV, 814.81, 18 May 2005	100mg/kg

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7. Dimethyl fumarate (CAS No.624-49-7)

Test Method: Organic solvent extraction, GCMS analysis

Test Result:

Test No.	Material No.	Test Parameter	Unit	RL	Regulatory Requirement	Test Result
T001	W510-L + W546-L + W533-L	Dimethyl fumarate	mg/kg	0.025	0.1	n.d.
T002	W570-L + W504-L + W506-L	Dimethyl fumarate	mg/kg	0.025	0.1	n.d.
T003	W558-L + W513-L + W549-L	Dimethyl fumarate	mg/kg	0.025	0.1	n.d.
T004	W535-L + W528-L + W518-L	Dimethyl fumarate	mg/kg	0.025	0.1	n.d.
T005	W563-L + W527-L + W521-L	Dimethyl fumarate	mg/kg	0.025	0.1	n.d.
T006	W512-L + W530-L + W545-L	Dimethyl fumarate	mg/kg	0.025	0.1	n.d.
T007	W505-L + W508-L + W553-L	Dimethyl fumarate	mg/kg	0.025	0.1	n.d.
T008	W560-L + W565-L + W501-L	Dimethyl fumarate	mg/kg	0.025	0.1	n.d.
T009	W503-L + W557-L + W511-L	Dimethyl fumarate	mg/kg	0.025	0.1	n.d.
T010	W543-L + W548-L + W525-L	Dimethyl fumarate	mg/kg	0.025	0.1	n.d.
T011	W534-L + W529-L + W561-L	Dimethyl fumarate	mg/kg	0.025	0.1	n.d.
T012	W537-L + W542-L	Dimethyl fumarate	mg/kg	0.025	0.1	n.d.
T013	W507-L + W532-L	Dimethyl fumarate	mg/kg	0.025	0.1	n.d.

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Abbreviation: n.d. = not detected (< Reporting Limit)
RL = Reporting Limit
mg/kg = milligram per kilogram

Remark:

- * According to REACH Regulation (EC) No. 1907/2006 Annex XVII Item 61 and amendment Commission Regulation (EU) No. 412/2012 (formerly known as 2012/48/EU), dimethylfumarate (DMF) shall not be used in articles or any parts thereof in concentrations greater than 0.1 mg/kg. Articles or any parts thereof containing DMF in concentrations greater than 0.1 mg/kg shall not be placed on the market.

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**8.Polycyclic aromatic hydrocarbons (PAHs) - 1907/2006/EC with Amendment No. 552/2009
 EC Annex XVII Item No. 50 and (EU) No.1272/2013**

Test Method: Organic solvent extraction, GCMS

Test No.					T001	T002	T003
Material No.					W510-L + W546-L	W533-L + W570-L	W504-L + W506-L
Test Parameter	CAS NO	Unit	RL	Regulatory Requirement	Result	Result	Result
Benzo[a]pyrene(BaP)	50-32-8	mg/kg	0.2	0.5	n.d.	n.d.	n.d.
Benzo(e)pyrene	192-97-2	mg/kg	0.2	0.5	n.d.	n.d.	n.d.
Benzo[a]anthracene	56-55-3	mg/kg	0.2	0.5	n.d.	n.d.	n.d.
Chrysene	218-01-9	mg/kg	0.2	0.5	n.d.	n.d.	n.d.
Benzo[b]fluoranthene	205-99-2	mg/kg	0.2	0.5	n.d.	n.d.	n.d.
Benzo[j]fluoranthene	205-82-3	mg/kg	0.2	0.5	n.d.	n.d.	n.d.
Benzo[k]fluoranthene	207-08-9	mg/kg	0.2	0.5	n.d.	n.d.	n.d.
Dibenzo[a,h]anthracene	53-70-3	mg/kg	0.2	0.5	n.d.	n.d.	n.d.

Test No.					T004	T005	T006
Material No.					W558-L + W513-L	W549-L + W535-L	W528-L + W518-L
Test Parameter	CAS NO	Unit	RL	Regulatory Requirement	Result	Result	Result
Benzo[a]pyrene(BaP)	50-32-8	mg/kg	0.2	0.5	n.d.	n.d.	n.d.
Benzo(e)pyrene	192-97-2	mg/kg	0.2	0.5	n.d.	n.d.	n.d.
Benzo[a]anthracene	56-55-3	mg/kg	0.2	0.5	n.d.	n.d.	n.d.
Chrysene	218-01-9	mg/kg	0.2	0.5	n.d.	n.d.	n.d.
Benzo[b]fluoranthene	205-99-2	mg/kg	0.2	0.5	n.d.	n.d.	n.d.
Benzo[j]fluoranthene	205-82-3	mg/kg	0.2	0.5	n.d.	n.d.	n.d.
Benzo[k]fluoranthene	207-08-9	mg/kg	0.2	0.5	n.d.	n.d.	n.d.
Dibenzo[a,h]anthracene	53-70-3	mg/kg	0.2	0.5	n.d.	n.d.	n.d.

Test No.					T007	T008	T009
Material No.					W563-L + W527-L	W521-L + W512-L	W530-L + W545-L
Test Parameter	CAS NO	Unit	RL	Regulatory Requirement	Result	Result	Result
Benzo[a]pyrene(BaP)	50-32-8	mg/kg	0.2	0.5	n.d.	n.d.	n.d.
Benzo(e)pyrene	192-97-2	mg/kg	0.2	0.5	n.d.	n.d.	n.d.
Benzo[a]anthracene	56-55-3	mg/kg	0.2	0.5	n.d.	n.d.	n.d.
Chrysene	218-01-9	mg/kg	0.2	0.5	n.d.	n.d.	n.d.
Benzo[b]fluoranthene	205-99-2	mg/kg	0.2	0.5	n.d.	n.d.	n.d.
Benzo[j]fluoranthene	205-82-3	mg/kg	0.2	0.5	n.d.	n.d.	n.d.
Benzo[k]fluoranthene	207-08-9	mg/kg	0.2	0.5	n.d.	n.d.	n.d.
Dibenzo[a,h]anthracene	53-70-3	mg/kg	0.2	0.5	n.d.	n.d.	n.d.

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Test No.					T010	T011	T012
Material No.					W505-L + W508-L	W553-L + W560-L	W565-L + W501-L
Test Parameter	CAS NO	Unit	RL	Regulatory Requirement	Result	Result	Result
Benzo[a]pyrene(BaP)	50-32-8	mg/kg	0.2	0.5	n.d.	n.d.	n.d.
Benzo(e)pyrene	192-97-2	mg/kg	0.2	0.5	n.d.	n.d.	n.d.
Benzo[a]anthracene	56-55-3	mg/kg	0.2	0.5	n.d.	n.d.	n.d.
Chrysene	218-01-9	mg/kg	0.2	0.5	n.d.	n.d.	n.d.
Benzo[b]fluoranthene	205-99-2	mg/kg	0.2	0.5	n.d.	n.d.	n.d.
Benzo[j]fluoranthene	205-82-3	mg/kg	0.2	0.5	n.d.	n.d.	n.d.
Benzo[k]fluoranthene	207-08-9	mg/kg	0.2	0.5	n.d.	n.d.	n.d.
Dibenzo[a,h]anthracene	53-70-3	mg/kg	0.2	0.5	n.d.	n.d.	n.d.

Test No.					T013	T014	T015
Material No.					W503-L + W557-L	W511-L + W543-L	W548-L + W525-L
Test Parameter	CAS NO	Unit	RL	Regulatory Requirement	Result	Result	Result
Benzo[a]pyrene(BaP)	50-32-8	mg/kg	0.2	0.5	n.d.	n.d.	n.d.
Benzo(e)pyrene	192-97-2	mg/kg	0.2	0.5	n.d.	n.d.	n.d.
Benzo[a]anthracene	56-55-3	mg/kg	0.2	0.5	n.d.	n.d.	n.d.
Chrysene	218-01-9	mg/kg	0.2	0.5	n.d.	n.d.	n.d.
Benzo[b]fluoranthene	205-99-2	mg/kg	0.2	0.5	n.d.	n.d.	n.d.
Benzo[j]fluoranthene	205-82-3	mg/kg	0.2	0.5	n.d.	n.d.	n.d.
Benzo[k]fluoranthene	207-08-9	mg/kg	0.2	0.5	n.d.	n.d.	n.d.
Dibenzo[a,h]anthracene	53-70-3	mg/kg	0.2	0.5	n.d.	n.d.	n.d.

Test No.					T016	T017	T018
Material No.					W534-L + W529-L	W561-L + W537-L	W542-L + W507-L
Test Parameter	CAS NO	Unit	RL	Regulatory Requirement	Result	Result	Result
Benzo[a]pyrene(BaP)	50-32-8	mg/kg	0.2	0.5	n.d.	n.d.	n.d.
Benzo(e)pyrene	192-97-2	mg/kg	0.2	0.5	n.d.	n.d.	n.d.
Benzo[a]anthracene	56-55-3	mg/kg	0.2	0.5	n.d.	n.d.	n.d.
Chrysene	218-01-9	mg/kg	0.2	0.5	n.d.	n.d.	n.d.
Benzo[b]fluoranthene	205-99-2	mg/kg	0.2	0.5	n.d.	n.d.	n.d.
Benzo[j]fluoranthene	205-82-3	mg/kg	0.2	0.5	n.d.	n.d.	n.d.
Benzo[k]fluoranthene	207-08-9	mg/kg	0.2	0.5	n.d.	n.d.	n.d.
Dibenzo[a,h]anthracene	53-70-3	mg/kg	0.2	0.5	n.d.	n.d.	n.d.

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				Test No.	T019
				Material No.	W532-L
Test Parameter	CAS NO	Unit	RL	Regulatory Requirement	Result
Benzo[a]pyrene(BaP)	50-32-8	mg/kg	0.2	0.5	n.d.
Benzo(e)pyrene	192-97-2	mg/kg	0.2	0.5	n.d.
Benzo[a]anthracene	56-55-3	mg/kg	0.2	0.5	n.d.
Chrysene	218-01-9	mg/kg	0.2	0.5	n.d.
Benzo[b]fluoranthene	205-99-2	mg/kg	0.2	0.5	n.d.
Benzo[j]fluoranthene	205-82-3	mg/kg	0.2	0.5	n.d.
Benzo[k]fluoranthene	207-08-9	mg/kg	0.2	0.5	n.d.
Dibenzo[a,h]anthracene	53-70-3	mg/kg	0.2	0.5	n.d.

Abbreviation: n.d. = Not Detected (< Reporting Limit)
 RL = Reporting Limit
 NA = Not Applicable
 mg/kg = milligram per kilogram

Remark:

- * Requirement according to European Directive 1907/2006/EC with Amendment No. 552/2009 EC Annex XVII Item No.: 50 and (EU) No.1272/2013 are summarized as below:

Scope	Parameter	Unit	Maximum permissible limit
Articles with direct as well as prolonged or short-term repetitive contact with the human skin or the oral cavity, under normal or reasonably foreseeable conditions of use ,made of plastic and rubber shall follow below limit:			
Such articles include amongst others: ---sport equipment such as bicycles, golf clubs, racquets ---household utensils, trolleys, walking frames --- tools for domestic use --- clothing, footwear, gloves and sportswear ---watch-straps, wrist-bands, masks, head-bands	Each of 8 listed PAHs	mg/kg	1
Toys, including activity toys, and childcare articles	Each of 8 listed PAHs	mg/kg	0.5

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9. Polycyclic aromatic hydrocarbons (PAHs)
Test Method: ZEK 01.4-08

Test Result:

				Test No.	T001	T002	T003
				Material No.	W510-L + W546-L	W533-L + W570-L	W504-L + W506-L
Test Parameter	CAS NO	Unit	RL	Result	Result	Result	
Acenaphthene	83-32-9	mg/kg	0.2	n.d.	n.d.	n.d.	
Acenaphthylene	208-96-8	mg/kg	0.2	n.d.	n.d.	n.d.	
Anthracene	120-12-7	mg/kg	0.2	n.d.	n.d.	n.d.	
Benzo[a]anthracene	56-55-3	mg/kg	0.2	n.d.	n.d.	n.d.	
Benzo[a]pyrene(BaP)	50-32-8	mg/kg	0.2	n.d.	n.d.	n.d.	
Benzo[b]fluoranthene	205-99-2	mg/kg	0.2	n.d.	n.d.	n.d.	
Benzo[k]fluoranthene	207-08-9	mg/kg	0.2	n.d.	n.d.	n.d.	
Benzo[j]fluoranthene	205-82-3	mg/kg	0.2	n.d.	n.d.	n.d.	
Benzo[g,h,i]perylene	191-24-2	mg/kg	0.2	n.d.	n.d.	n.d.	
Benzo[e]pyrene	192-97-2	mg/kg	0.2	n.d.	n.d.	n.d.	
Chrysene	218-01-9	mg/kg	0.2	n.d.	n.d.	n.d.	
Dibenzo[a,h]anthracene	53-70-3	mg/kg	0.2	n.d.	n.d.	n.d.	
Fluoranthene	206-44-0	mg/kg	0.2	n.d.	n.d.	n.d.	
Fluorene	86-73-7	mg/kg	0.2	n.d.	0.2	n.d.	
Indeno[1,2,3-cd]pyrene	193-39-5	mg/kg	0.2	n.d.	n.d.	n.d.	
Naphthalene	91-20-3	mg/kg	0.2	n.d.	0.3	n.d.	
Phenanthrene	85-01-8	mg/kg	0.2	n.d.	0.2	n.d.	
Pyrene	129-00-0	mg/kg	0.2	n.d.	0.9	n.d.	
Sum PAHs	NA	mg/kg	NA	n.d.	1.6	n.d.	
Category*	NA	NA	NA	2	2	2	
Limit of Benzo[a]pyrene(BaP)	50-32-8	mg/kg	NA	1	1	1	
Limit of Sum PAHs	NA	mg/kg	NA	10	10	10	

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				Test No.	T004	T005	T006
				Material No.	W558-L + W513-L	W549-L + W535-L	W528-L + W518-L
Test Parameter	CAS NO	Unit	RL	Result	Result	Result	
Acenaphthene	83-32-9	mg/kg	0.2	n.d.	n.d.	n.d.	
Acenaphthylene	208-96-8	mg/kg	0.2	n.d.	n.d.	n.d.	
Anthracene	120-12-7	mg/kg	0.2	n.d.	n.d.	n.d.	
Benzo[a]anthracene	56-55-3	mg/kg	0.2	n.d.	n.d.	n.d.	
Benzo[a]pyrene(BaP)	50-32-8	mg/kg	0.2	n.d.	n.d.	n.d.	
Benzo[b]fluoranthene	205-99-2	mg/kg	0.2	n.d.	n.d.	n.d.	
Benzo[k]fluoranthene	207-08-9	mg/kg	0.2	n.d.	n.d.	n.d.	
Benzo[j]fluoranthene	205-82-3	mg/kg	0.2	n.d.	n.d.	n.d.	
Benzo[g,h,i]perylene	191-24-2	mg/kg	0.2	n.d.	n.d.	n.d.	
Benzo[e]pyrene	192-97-2	mg/kg	0.2	n.d.	n.d.	n.d.	
Chrysene	218-01-9	mg/kg	0.2	n.d.	n.d.	n.d.	
Dibenzo[a,h]anthracene	53-70-3	mg/kg	0.2	n.d.	n.d.	n.d.	
Fluoranthene	206-44-0	mg/kg	0.2	n.d.	n.d.	n.d.	
Fluorene	86-73-7	mg/kg	0.2	n.d.	n.d.	n.d.	
Indeno[1,2,3-cd]pyrene	193-39-5	mg/kg	0.2	n.d.	n.d.	n.d.	
Naphthalene	91-20-3	mg/kg	0.2	n.d.	n.d.	n.d.	
Phenanthrene	85-01-8	mg/kg	0.2	n.d.	n.d.	n.d.	
Pyrene	129-00-0	mg/kg	0.2	n.d.	n.d.	n.d.	
Sum PAHs	NA	mg/kg	NA	n.d.	n.d.	n.d.	
Category*	NA	NA	NA	2	2	2	
Limit of Benzo[a]pyrene(BaP)	50-32-8	mg/kg	NA	1	1	1	
Limit of Sum PAHs	NA	mg/kg	NA	10	10	10	

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				Test No.	T007	T008	T009
				Material No.	W563-L + W527-L	W521-L + W512-L	W530-L + W545-L
Test Parameter	CAS NO	Unit	RL	Result	Result	Result	
Acenaphthene	83-32-9	mg/kg	0.2	n.d.	n.d.	n.d.	
Acenaphthylene	208-96-8	mg/kg	0.2	n.d.	n.d.	n.d.	
Anthracene	120-12-7	mg/kg	0.2	n.d.	n.d.	n.d.	
Benzo[a]anthracene	56-55-3	mg/kg	0.2	n.d.	n.d.	n.d.	
Benzo[a]pyrene(BaP)	50-32-8	mg/kg	0.2	n.d.	n.d.	n.d.	
Benzo[b]fluoranthene	205-99-2	mg/kg	0.2	n.d.	n.d.	n.d.	
Benzo[k]fluoranthene	207-08-9	mg/kg	0.2	n.d.	n.d.	n.d.	
Benzo[j]fluoranthene	205-82-3	mg/kg	0.2	n.d.	n.d.	n.d.	
Benzo[g,h,i]perylene	191-24-2	mg/kg	0.2	n.d.	n.d.	n.d.	
Benzo[e]pyrene	192-97-2	mg/kg	0.2	n.d.	n.d.	n.d.	
Chrysene	218-01-9	mg/kg	0.2	n.d.	n.d.	n.d.	
Dibenzo[a,h]anthracene	53-70-3	mg/kg	0.2	n.d.	n.d.	n.d.	
Fluoranthene	206-44-0	mg/kg	0.2	n.d.	n.d.	n.d.	
Fluorene	86-73-7	mg/kg	0.2	n.d.	n.d.	n.d.	
Indeno[1,2,3-cd]pyrene	193-39-5	mg/kg	0.2	n.d.	n.d.	n.d.	
Naphthalene	91-20-3	mg/kg	0.2	n.d.	n.d.	n.d.	
Phenanthrene	85-01-8	mg/kg	0.2	n.d.	n.d.	n.d.	
Pyrene	129-00-0	mg/kg	0.2	n.d.	n.d.	n.d.	
Sum PAHs	NA	mg/kg	NA	n.d.	n.d.	n.d.	
Category*	NA	NA	NA	2	2	2	
Limit of Benzo[a]pyrene(BaP)	50-32-8	mg/kg	NA	1	1	1	
Limit of Sum PAHs	NA	mg/kg	NA	10	10	10	

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				Test No.	T010	T011	T012
				Material No.	W505-L + W508-L	W553-L + W560-L	W565-L + W501-L
Test Parameter	CAS NO	Unit	RL	Result	Result	Result	
Acenaphthene	83-32-9	mg/kg	0.2	n.d.	n.d.	n.d.	
Acenaphthylene	208-96-8	mg/kg	0.2	n.d.	n.d.	n.d.	
Anthracene	120-12-7	mg/kg	0.2	n.d.	n.d.	n.d.	
Benzo[a]anthracene	56-55-3	mg/kg	0.2	n.d.	n.d.	n.d.	
Benzo[a]pyrene(BaP)	50-32-8	mg/kg	0.2	n.d.	n.d.	n.d.	
Benzo[b]fluoranthene	205-99-2	mg/kg	0.2	n.d.	n.d.	n.d.	
Benzo[k]fluoranthene	207-08-9	mg/kg	0.2	n.d.	n.d.	n.d.	
Benzo[j]fluoranthene	205-82-3	mg/kg	0.2	n.d.	n.d.	n.d.	
Benzo[g,h,i]perylene	191-24-2	mg/kg	0.2	n.d.	n.d.	n.d.	
Benzo[e]pyrene	192-97-2	mg/kg	0.2	n.d.	n.d.	n.d.	
Chrysene	218-01-9	mg/kg	0.2	n.d.	n.d.	n.d.	
Dibenzo[a,h]anthracene	53-70-3	mg/kg	0.2	n.d.	n.d.	n.d.	
Fluoranthene	206-44-0	mg/kg	0.2	n.d.	n.d.	n.d.	
Fluorene	86-73-7	mg/kg	0.2	n.d.	n.d.	n.d.	
Indeno[1,2,3-cd]pyrene	193-39-5	mg/kg	0.2	n.d.	n.d.	n.d.	
Naphthalene	91-20-3	mg/kg	0.2	0.8	n.d.	n.d.	
Phenanthrene	85-01-8	mg/kg	0.2	n.d.	n.d.	n.d.	
Pyrene	129-00-0	mg/kg	0.2	n.d.	n.d.	n.d.	
Sum PAHs	NA	mg/kg	NA	0.8	n.d.	n.d.	
Category*	NA	NA	NA	2	2	2	
Limit of Benzo[a]pyrene(BaP)	50-32-8	mg/kg	NA	1	1	1	
Limit of Sum PAHs	NA	mg/kg	NA	10	10	10	

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				Test No.	T013	T014	T015
				Material No.	W503-L + W557-L	W511-L + W543-L	W548-L + W525-L
Test Parameter	CAS NO	Unit	RL	Result	Result	Result	
Acenaphthene	83-32-9	mg/kg	0.2	n.d.	n.d.	n.d.	
Acenaphthylene	208-96-8	mg/kg	0.2	n.d.	n.d.	n.d.	
Anthracene	120-12-7	mg/kg	0.2	n.d.	n.d.	n.d.	
Benzo[a]anthracene	56-55-3	mg/kg	0.2	n.d.	n.d.	n.d.	
Benzo[a]pyrene(BaP)	50-32-8	mg/kg	0.2	n.d.	n.d.	n.d.	
Benzo[b]fluoranthene	205-99-2	mg/kg	0.2	n.d.	n.d.	n.d.	
Benzo[k]fluoranthene	207-08-9	mg/kg	0.2	n.d.	n.d.	n.d.	
Benzo[j]fluoranthene	205-82-3	mg/kg	0.2	n.d.	n.d.	n.d.	
Benzo[g,h,i]perylene	191-24-2	mg/kg	0.2	n.d.	n.d.	n.d.	
Benzo[e]pyrene	192-97-2	mg/kg	0.2	n.d.	n.d.	n.d.	
Chrysene	218-01-9	mg/kg	0.2	n.d.	n.d.	n.d.	
Dibenzo[a,h]anthracene	53-70-3	mg/kg	0.2	n.d.	n.d.	n.d.	
Fluoranthene	206-44-0	mg/kg	0.2	n.d.	n.d.	n.d.	
Fluorene	86-73-7	mg/kg	0.2	n.d.	n.d.	n.d.	
Indeno[1,2,3-cd]pyrene	193-39-5	mg/kg	0.2	n.d.	n.d.	n.d.	
Naphthalene	91-20-3	mg/kg	0.2	n.d.	n.d.	n.d.	
Phenanthrene	85-01-8	mg/kg	0.2	n.d.	n.d.	n.d.	
Pyrene	129-00-0	mg/kg	0.2	n.d.	n.d.	n.d.	
Sum PAHs	NA	mg/kg	NA	n.d.	n.d.	n.d.	
Category*	NA	NA	NA	2	2	2	
Limit of Benzo[a]pyrene(BaP)	50-32-8	mg/kg	NA	1	1	1	
Limit of Sum PAHs	NA	mg/kg	NA	10	10	10	

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				Test No.	T016	T017	T018
				Material No.	W534-L + W529-L	W561-L + W537-L	W542-L + W507-L
Test Parameter	CAS NO	Unit	RL	Result	Result	Result	
Acenaphthene	83-32-9	mg/kg	0.2	n.d.	n.d.	n.d.	
Acenaphthylene	208-96-8	mg/kg	0.2	n.d.	n.d.	n.d.	
Anthracene	120-12-7	mg/kg	0.2	n.d.	n.d.	n.d.	
Benzo[a]anthracene	56-55-3	mg/kg	0.2	n.d.	n.d.	n.d.	
Benzo[a]pyrene(BaP)	50-32-8	mg/kg	0.2	n.d.	n.d.	n.d.	
Benzo[b]fluoranthene	205-99-2	mg/kg	0.2	n.d.	n.d.	n.d.	
Benzo[k]fluoranthene	207-08-9	mg/kg	0.2	n.d.	n.d.	n.d.	
Benzo[j]fluoranthene	205-82-3	mg/kg	0.2	n.d.	n.d.	n.d.	
Benzo[g,h,i]perylene	191-24-2	mg/kg	0.2	n.d.	n.d.	n.d.	
Benzo[e]pyrene	192-97-2	mg/kg	0.2	n.d.	n.d.	n.d.	
Chrysene	218-01-9	mg/kg	0.2	n.d.	n.d.	n.d.	
Dibenzo[a,h]anthracene	53-70-3	mg/kg	0.2	n.d.	n.d.	n.d.	
Fluoranthene	206-44-0	mg/kg	0.2	n.d.	n.d.	n.d.	
Fluorene	86-73-7	mg/kg	0.2	n.d.	n.d.	n.d.	
Indeno[1,2,3-cd]pyrene	193-39-5	mg/kg	0.2	n.d.	n.d.	n.d.	
Naphthalene	91-20-3	mg/kg	0.2	n.d.	n.d.	n.d.	
Phenanthrene	85-01-8	mg/kg	0.2	n.d.	n.d.	n.d.	
Pyrene	129-00-0	mg/kg	0.2	n.d.	n.d.	n.d.	
Sum PAHs	NA	mg/kg	NA	n.d.	n.d.	n.d.	
Category*	NA	NA	NA	2	2	2	
Limit of Benzo[a]pyrene(BaP)	50-32-8	mg/kg	NA	1	1	1	
Limit of Sum PAHs	NA	mg/kg	NA	10	10	10	

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Test No.				T019
Material No.				W532-L
Test Parameter	CAS NO	Unit	RL	Result
Acenaphthene	83-32-9	mg/kg	0.2	n.d.
Acenaphthylene	208-96-8	mg/kg	0.2	n.d.
Anthracene	120-12-7	mg/kg	0.2	n.d.
Benzo[a]anthracene	56-55-3	mg/kg	0.2	n.d.
Benzo[a]pyrene(BaP)	50-32-8	mg/kg	0.2	n.d.
Benzo[b]fluoranthene	205-99-2	mg/kg	0.2	n.d.
Benzo[k]fluoranthene	207-08-9	mg/kg	0.2	n.d.
Benzo[j]fluoranthene	205-82-3	mg/kg	0.2	n.d.
Benzo[g,h,i]perylene	191-24-2	mg/kg	0.2	n.d.
Benzo[e]pyrene	192-97-2	mg/kg	0.2	n.d.
Chrysene	218-01-9	mg/kg	0.2	n.d.
Dibenzo[a,h]anthracene	53-70-3	mg/kg	0.2	n.d.
Fluoranthene	206-44-0	mg/kg	0.2	n.d.
Fluorene	86-73-7	mg/kg	0.2	n.d.
Indeno[1,2,3-cd]pyrene	193-39-5	mg/kg	0.2	n.d.
Naphthalene	91-20-3	mg/kg	0.2	n.d.
Phenanthrene	85-01-8	mg/kg	0.2	n.d.
Pyrene	129-00-0	mg/kg	0.2	n.d.
Sum PAHs	NA	mg/kg	NA	n.d.
Category*	NA	NA	NA	2
Limit of Benzo[a]pyrene(BaP)	50-32-8	mg/kg	NA	1
Limit of Sum PAHs	NA	mg/kg	NA	10

Abbreviation: n.d. = not detected (< Reporting Limit)
 RL = Reporting Limit
 NA = Not Applicable
 mg/kg = milligram per kilogram

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Remark:

- * Single components with an amount of <0.2 mg/kg were not considered by the calculation of the sum. In the case of all 18 PAHs according to ZEK 01.4-08 was not detected, the result is stated n.d.
- ** PAH maximum permissible limits requirement from the GS-Mark Approval

Parameter	Category 1	Category 2	Category 3
	Materials intended to be put into the mouth, or toy materials for children aged <36 months with intended skin contact	Materials, which is not falling into Cat. 1, with foreseeable skin contact longer than 30 seconds (long-term skin contact)	Materials, which is not falling into Cat. 1 or Cat. 2, with foreseeable skin contact up to 30 seconds (short-term skin contact)
Benzo(a)pyrene (mg/kg)	<0.2	1	20
Sum 18 PAH (ZEK 01.4-08) (mg/kg)	< 0.2	10	200

Limit: Specific evaluation required according to type of foreseeable use.

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10. Phthalates (group)

Test Method: Organic solvent extraction, analyzed by GCMS

Test Result:

					Test No.	T001	T002	T003
					Material No.	W510-L + W546-L + W533-L	W570-L + W504-L + W506-L	W558-L + W513-L + W549-L
Test Parameter	CAS NO	Unit	RL	Customer's Requirement	Result	Result	Result	
Dibutyl phthalate (DBP)	84-74-2	%	0.005	-	n.d.	n.d.	n.d.	
Benzylbutyl phthalate (BBP)	85-68-7	%	0.005	-	n.d.	n.d.	n.d.	
Diethylhexyl phthalate (DEHP)	117-81-7	%	0.005	-	n.d.	n.d.	n.d.	
Sum (DBP+BBP+DEHP)	-	%	NA	0.1	n.d.	n.d.	n.d.	
Di-n-octyl phthalate (DNOP)	117-84-0	%	0.005	-	n.d.	n.d.	n.d.	
Diisodecyl phthalate (DIDP)	26761-40-0, 68515-49-1	%	0.005	-	n.d.	n.d.	n.d.	
Diisononyl phthalate (DINP)	28553-12-0, 68515-48-0	%	0.005	-	n.d.	n.d.	n.d.	
Sum (DINP+ DIDP+ DNOP)	-	%	NA	0.1	n.d.	n.d.	n.d.	
Diisobutyl phthalate (DIBP)	84-69-5	%	0.005	0.1	n.d.	n.d.	n.d.	
Diisopentyl phthalate (DiPP)	605-50-5	%	0.005	0.1	n.d.	n.d.	n.d.	
n-Pentyl-isopentyl phthalate	776297-69-9	%	0.005	0.1	n.d.	n.d.	n.d.	
Di(methoxyethyl) phthalate (DMEP)	117-82-8	%	0.005	0.1	n.d.	n.d.	n.d.	
1,2-Benzenedicarboxylic acid, di-C6-8 branched alkyl esters, C7-rich (DIHP)	71888-89-6	%	0.01	0.1	n.d.	n.d.	n.d.	
1,2-benzenedicarboxylic acid, di-C7-11-branched and linear alkyl ester (DHNUP)	68515-42-4	%	0.01	0.1	n.d.	n.d.	n.d.	
1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	%	0.01	0.1	n.d.	n.d.	n.d.	
Dipentyl phthalate (DPP)	131-18-0	%	0.005	0.1	n.d.	n.d.	n.d.	
Di-n-hexyl phthalate (DnHP)	84-75-3	%	0.005	0.1	n.d.	n.d.	n.d.	
1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	%	0.01	0.1	n.d.	n.d.	n.d.	

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					Test No.	T004	T005	T006
					Material No.	W535-L	W563-L	W512-L
						+	+	+
						W528-L	W527-L	W530-L
						+	+	+
						W518-L	W521-L	W545-L
Test Parameter	CAS NO	Unit	RL	Customer's Requirement	Result	Result	Result	
Dibutyl phthalate (DBP)	84-74-2	%	0.005	-	n.d.	n.d.	n.d.	
Benzylbutyl phthalate (BBP)	85-68-7	%	0.005	-	n.d.	n.d.	n.d.	
Diethylhexyl phthalate (DEHP)	117-81-7	%	0.005	-	n.d.	n.d.	n.d.	
Sum (DBP+BBP+DEHP)	-	%	NA	0.1	n.d.	n.d.	n.d.	
Di-n-octyl phthalate (DNOP)	117-84-0	%	0.005	-	n.d.	n.d.	n.d.	
Diisodecyl phthalate (DIDP)	26761-40-0, 68515-49-1	%	0.005	-	n.d.	n.d.	n.d.	
Diisononyl phthalate (DINP)	28553-12-0, 68515-48-0	%	0.005	-	n.d.	n.d.	n.d.	
Sum (DINP+ DIDP+ DNOP)	-	%	NA	0.1	n.d.	n.d.	n.d.	
Diisobutyl phthalate (DIBP)	84-69-5	%	0.005	0.1	n.d.	n.d.	n.d.	
Diisopentyl phthalate (DiPP)	605-50-5	%	0.005	0.1	n.d.	n.d.	n.d.	
n-Pentyl-isopentyl phthalate	776297-69-9	%	0.005	0.1	n.d.	n.d.	n.d.	
Di(methoxyethyl) phthalate (DMEP)	117-82-8	%	0.005	0.1	n.d.	n.d.	n.d.	
1,2-Benzenedicarboxylic acid, di-C6-8 branched alkyl esters, C7-rich (DIHP)	71888-89-6	%	0.01	0.1	n.d.	n.d.	n.d.	
1,2-benzenedicarboxylic acid, di-C7-11-branched and linear alkyl ester (DHNUP)	68515-42-4	%	0.01	0.1	n.d.	n.d.	n.d.	
1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	%	0.01	0.1	n.d.	n.d.	n.d.	
Dipentyl phthalate (DPP)	131-18-0	%	0.005	0.1	n.d.	n.d.	n.d.	
Di-n-hexyl phthalate (DnHP)	84-75-3	%	0.005	0.1	n.d.	n.d.	n.d.	
1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	%	0.01	0.1	n.d.	n.d.	n.d.	

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					Test No.	T007	T008	T009
					Material No.	W505-L +	W560-L +	W503-L +
						W508-L +	W565-L +	W557-L +
						W553-L	W501-L	W511-L
Test Parameter	CAS NO	Unit	RL	Customer's Requirement	Result	Result	Result	
Dibutyl phthalate (DBP)	84-74-2	%	0.005	-	n.d.	n.d.	n.d.	
Benzylbutyl phthalate (BBP)	85-68-7	%	0.005	-	n.d.	n.d.	n.d.	
Diethylhexyl phthalate (DEHP)	117-81-7	%	0.005	-	n.d.	n.d.	n.d.	
Sum (DBP+BBP+DEHP)	-	%	NA	0.1	n.d.	n.d.	n.d.	
Di-n-octyl phthalate (DNOP)	117-84-0	%	0.005	-	n.d.	n.d.	n.d.	
Diisodecyl phthalate (DIDP)	26761-40-0, 68515-49-1	%	0.005	-	n.d.	n.d.	n.d.	
Diisononyl phthalate (DINP)	28553-12-0, 68515-48-0	%	0.005	-	n.d.	n.d.	n.d.	
Sum (DINP+ DIDP+ DNOP)	-	%	NA	0.1	n.d.	n.d.	n.d.	
Diisobutyl phthalate (DIBP)	84-69-5	%	0.005	0.1	n.d.	n.d.	n.d.	
Diisopentyl phthalate (DiPP)	605-50-5	%	0.005	0.1	n.d.	n.d.	n.d.	
n-Pentyl-isopentyl phthalate	776297-69-9	%	0.005	0.1	n.d.	n.d.	n.d.	
Di(methoxyethyl) phthalate (DMEP)	117-82-8	%	0.005	0.1	n.d.	n.d.	n.d.	
1,2-Benzenedicarboxylic acid, di-C6-8 branched alkyl esters, C7-rich (DIHP)	71888-89-6	%	0.01	0.1	n.d.	n.d.	n.d.	
1,2-benzenedicarboxylic acid, di-C7-11-branched and linear alkyl ester (DHNUP)	68515-42-4	%	0.01	0.1	n.d.	n.d.	n.d.	
1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	%	0.01	0.1	n.d.	n.d.	n.d.	
Dipentyl phthalate (DPP)	131-18-0	%	0.005	0.1	n.d.	n.d.	n.d.	
Di-n-hexyl phthalate (DnHP)	84-75-3	%	0.005	0.1	n.d.	n.d.	n.d.	
1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	%	0.01	0.1	n.d.	n.d.	n.d.	

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					Test No.	T010	T011	T012
					Material No.	W543-L + W548-L + W525-L	W534-L + W529-L + W561-L	W537-L + W542-L
Test Parameter	CAS NO	Unit	RL	Customer's Requirement	Result	Result	Result	
Dibutyl phthalate (DBP)	84-74-2	%	0.005	-	n.d.	n.d.	n.d.	
Benzylbutyl phthalate (BBP)	85-68-7	%	0.005	-	n.d.	n.d.	n.d.	
Diethylhexyl phthalate (DEHP)	117-81-7	%	0.005	-	n.d.	n.d.	n.d.	
Sum (DBP+BBP+DEHP)	-	%	NA	0.1	n.d.	n.d.	n.d.	
Di-n-octyl phthalate (DNOP)	117-84-0	%	0.005	-	n.d.	n.d.	n.d.	
Diisodecyl phthalate (DIDP)	26761-40-0, 68515-49-1	%	0.005	-	n.d.	n.d.	n.d.	
Diisononyl phthalate (DINP)	28553-12-0, 68515-48-0	%	0.005	-	n.d.	n.d.	n.d.	
Sum (DINP+ DIDP+ DNOP)	-	%	NA	0.1	n.d.	n.d.	n.d.	
Diisobutyl phthalate (DIBP)	84-69-5	%	0.005	0.1	n.d.	n.d.	n.d.	
Diisopentyl phthalate (DiPP)	605-50-5	%	0.005	0.1	n.d.	n.d.	n.d.	
n-Pentyl-isopentyl phthalate	776297-69-9	%	0.005	0.1	n.d.	n.d.	n.d.	
Di(methoxyethyl) phthalate (DMEP)	117-82-8	%	0.005	0.1	n.d.	n.d.	n.d.	
1,2-Benzenedicarboxylic acid, di-C6-8 branched alkyl esters, C7-rich (DIHP)	71888-89-6	%	0.01	0.1	n.d.	n.d.	n.d.	
1,2-benzenedicarboxylic acid, di-C7-11-branched and linear alkyl ester (DHNUP)	68515-42-4	%	0.01	0.1	n.d.	n.d.	n.d.	
1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	%	0.01	0.1	n.d.	n.d.	n.d.	
Dipentyl phthalate (DPP)	131-18-0	%	0.005	0.1	n.d.	n.d.	n.d.	
Di-n-hexyl phthalate (DnHP)	84-75-3	%	0.005	0.1	n.d.	n.d.	n.d.	
1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	%	0.01	0.1	n.d.	n.d.	n.d.	

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					Test No.	T013
					Material No.	W507-L + W532-L
Test Parameter	CAS NO	Unit	RL	Customer's Requirement	Result	
Dibutyl phthalate (DBP)	84-74-2	%	0.005	-	n.d.	
Benzylbutyl phthalate (BBP)	85-68-7	%	0.005	-	n.d.	
Diethylhexyl phthalate (DEHP)	117-81-7	%	0.005	-	n.d.	
Sum (DBP+BBP+DEHP)	-	%	NA	0.1	n.d.	
Di-n-octyl phthalate (DNOP)	117-84-0	%	0.005	-	n.d.	
Diisodecyl phthalate (DIDP)	26761-40-0, 68515-49-1	%	0.005	-	n.d.	
Diisononyl phthalate (DINP)	28553-12-0, 68515-48-0	%	0.005	-	n.d.	
Sum (DINP+ DIDP+ DNOP)	-	%	NA	0.1	n.d.	
Diisobutyl phthalate (DIBP)	84-69-5	%	0.005	0.1	n.d.	
Diisopentyl phthalate (DiPP)	605-50-5	%	0.005	0.1	n.d.	
n-Pentyl-isopentyl phthalate	776297-69-9	%	0.005	0.1	n.d.	
Di(methoxyethyl) phthalate (DMEP)	117-82-8	%	0.005	0.1	n.d.	
1,2-Benzenedicarboxylic acid, di-C6-8 branched alkyl esters, C7-rich (DIHP)	71888-89-6	%	0.01	0.1	n.d.	
1,2-benzenedicarboxylic acid, di-C7-11-branched and linear alkyl ester (DHNUP)	68515-42-4	%	0.01	0.1	n.d.	
1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	%	0.01	0.1	n.d.	
Dipentyl phthalate (DPP)	131-18-0	%	0.005	0.1	n.d.	
Di-n-hexyl phthalate (DnHP)	84-75-3	%	0.005	0.1	n.d.	
1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	%	0.01	0.1	n.d.	

Abbreviation: n.d. = Not Detected (< RL)
 RL = Reporting Limit
 NA = Not Applicable
 % = percentage

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11. Screening of substances of very high concern (SVHC) subject to authorisation, according to (EU) No 143/2011, (EU) No 125/2012, (EU) No 348/2013 and (EU) No 895/2014 (Annex XIV of EC No 1907/2006) and candidate list by European Chemical Agency (ECHA)

Test Method: 1) Test portion is digested with acid and assisted with microwave, the elements are analysed by ICP-OES.
 2) Test portion is extracted by organic solvent, semi-quantitative analysis by GC-MS / UV-Vis
 3) Test portion is extracted by organic solvent, the extraction solution is analyzed by Headspace-GC/MS / LC-DAD-MS / LC-MS/MS.

Test Result:

Test No.:	T001	T002	T003
Material No.:	W510-L+W546-L+W533-L+W570-L+W504-L+W506-L+W558-L+W513-L+W549-L+W535-L	W528-L+W518-L+W563-L+W527-L+W521-L+W512-L+W530-L+W545-L+W505-L+W508-L	W553-L+W560-L+W565-L+W501-L+W503-L+W557-L+W511-L+W543-L+W548-L+W525-L
Result (%)	n.d.	n.d.	n.d.

Test No.:	T004
Material No.:	W534-L+W529-L+W561-L+W537-L+W542-L+W507-L+W532-L
Result (%)	n.d.

Abbreviation:

n.d. = Not Detected (< Reporting Limit)
 RL = Reporting Limit
 % = Percentage

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Remark:

- (*1) The reporting limit for each individual SVHC subject to authorisation according to (EU) No 143/2011, (EU) No 125/2012, (EU) No 348/2013 and (EU) No 895/2014 (Annex XIV of EC No 1907/2006):

	Substances	CAS No.	Reporting Limit
1	4,4'- Diaminodiphenylmethane (MDA)	101-77-9	0.01%
2	Benzylbutyl phthalate (BBP)	85-68-7	0.01%
3	Bis (2-ethylhexyl)phthalate (DEHP)	117-81-7	0.01%
4	Dibutyl phthalate (DBP)	84-74-2	0.01%
5	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified: Alpha-hexabromocyclododecane Beta-hexabromocyclododecane Gamma-hexabromocyclododecane	25637-99-4/3194-55-6	0.01%
6	5-Tert-butyl-2,4,6-trinitro-m-xylene (Musk Xylene, MX)	81-15-2	0.01%
7	2,4-Dinitrotoluene (2,4-DNT)	121-14-2	0.01%
8	Diisobutyl phthalate (DIBP)	84-69-5	0.01%
9	Tris(2-chloroethyl)phosphate	115-96-8	0.01%
10	Diarsenic pentoxide(*3)	1303-28-2	0.01%
11	Diarsenic trioxide(*3)	1327-53-3	0.01%
12	Lead chromate(*3)(*4)	7758-97-6	0.01%
13	Lead chromate molybdate sulphate red (C.I. Pigment Red 104) (*3)(*4)	12656-85-8	0.01%
14	Lead sulfochromate yellow (C.I.Pigment Yellow 34) (*3)	1344-37-2	0.01%
15	Trichloroethylene	79-01-6	0.01%
16	Chromium trioxide(*4)	1333-82-0	0.01%
17	Acids generated from chromium trioxide and their oligomers: Chromic acid Dichromic acid Oligomers of chromic acid and dichromic acid(*4)	7738-94-5 13530-68-2	0.01%
18	Sodium dichromate, dihydrate (*3)	7789-12-0/10588-01-9	0.01%
19	Potassium dichromate(*4)	7778-50-9	0.01%
20	Ammonium dichromate(*4)	7789-09-5	0.01%
21	Potassium chromate(*4)	7789-00-6	0.01%
22	Sodium chromate(*4)	7775-11-3	0.01%
23	Formaldehyde, oligomeric reaction products with aniline (technical MDA) (*11)	25214-70-4	0.01%
24	1,2-Dichloroethane	107-06-2	0.01%
25	Bis(2-methoxyethyl) ether	111-96-6	0.01%
26	Arsenic acid (*3)	7778-39-4	0.01%
27	2,2'-dichloro-4,4'-methylenedianiline (MOCA)	101-14-4	0.01%
28	Dichromium tris(chromate) (*4)	24613-89-6	0.01%
29	Strontium chromate (*4)	7789-06-2	0.01%
30	Potassium hydroxyoctaoxidizincatedi-chromate (*4)	11103-86-9	0.01%
31	Pentazinc chromate octahydroxide (*4)	49663-84-5	0.01%

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(*2) The reporting limit for each individual SVHC in Candidate List by ECHA:

	Substances	CAS No.	Reporting Limit
32	Anthracene	120-12-7	0.01%
33	Bis(tributyltin)oxide (TBTO) (*3) (*5)	56-35-9	0.01%
34	Triethyl arsenate(*3)	15606-95-8	0.01%
35	Lead hydrogen arsenate(*3)	7784-40-9	0.01%
36	Cobalt(II) dichloride(*3)	7646-79-9	0.01%
37	Acrylamide	79-06-1	0.01%
38	Anthracene oil(*7)	90640-80-5	0.01%(*8)
39	Anthracene oil,anthracene paste,distn.lights(*7)	91995-17-4	
40	Anthracene oil, anthracene paste, anthracene fraction (*7)	91995-15-2	
41	Anthracene oil, anthracene-low(*7)	90640-82-7	
42	Anthracene oil, anthracene paste (*7)	90640-81-6	
43	Coal tar pitch, high temperature (*7)	65996-93-2	
44	Boric acid(*3) (*6)	10043-35-3 / 11113-50-1	0.01%
45	Disodium tetraborate, anhydrous(*3) (*6)	1330-43-4 / 12179-04-3 / 1303-96-4	0.01%
46	Tetraboron disodium heptaoxide, hydrate(*3) (*6)	12267-73-1	0.01%
47	2-Methoxyethanol	109-86-4	0.01%
48	2-Ethoxyethanol	110-80-5	0.01%
49	Cobalt(II) sulphate(*3)	10124-43-3	0.01%
50	Cobalt(II) dinitrate(*3)	10141-05-6	0.01%
51	Cobalt(II) carbonate(*3)	513-79-1	0.01%
52	Cobalt(II) diacetate(*3)	71-48-7	0.01%
53	Alkanes C10-C13, chloro (Short chain chlorinated paraffins) (SCCP)	85535-84-8	0.01%
54	2-Ethoxyethyl acetate	111-15-9	0.01%
55	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP)	68515-42-4	0.01%
56	Hydrazine	7803-57-8 / 302-01-2	0.01%
57	1-Methyl-2-pyrrolidone	872-50-4	0.01%
58	1,2,3-Trichloropropane	96-18-4	0.01%
59	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters C7-rich (DIHP)	71888-89-6	0.01%
60	Aluminosilicate Refractory Ceramic Fibres (RCF) (*9)	-	0.01%
61	Zirconia Aluminosilicate Refractory Ceramic Fibres (Zr-RCF) (*9)	-	0.01%
62	Bis(2-methoxyethyl) phthalate	117-82-8	0.01%
63	2-Methoxyaniline; o-Anisidine	90-04-0	0.01%
64	4-(1,1,3,3-tetramethylbutyl)phenol	140-66-9	0.01%
65	Calcium arsenate (*3)	7778-44-1	0.01%
66	Trilead diarsenate (*3)	3687-31-8	0.01%
67	N,N-dimethylacetamide (DMAC)	127-19-5	0.01%
68	Phenolphthalein	77-09-8	0.01%
69	Lead dipicrate (*3)	6477-64-1	0.01%

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	Substances	CAS No.	Reporting Limit
70	Lead diazide, Lead azide (*3)	13424-46-9	0.01%
71	Lead styphnate (*3)	15245-44-0	0.01%
72	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	0.01%
73	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	0.01%
74	Diboron trioxide (*3) (*6)	1303-86-2	0.01%
75	Formamide	75-12-7	0.01%
76	Lead(II) bis(methanesulfonate) (*3)	17570-76-2	0.01%
77	1,3,5-tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione (TGIC)	2451-62-9	0.01%
78	1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione (β-TGIC)	59653-74-6	
79	4,4'-bis(dimethylamino)benzophenone (Michler's ketone), MK	90-94-8	0.01%
80	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base), RMK	101-61-1	0.01%
81	[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26) (*10)	2580-56-5	0.01%
82	[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3) (*10)	548-62-9	
83	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol (*10)	561-41-1	
84	α,α-Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) (*10)	6786-83-0	
85	Bis(pentabromophenyl) ether (DecaBDE)	1163-19-5	0.01%
86	Pentacosafuorotridecanoic acid	72629-94-8	0.01%
87	Tricosafuorododecanoic acid	307-55-1	0.01%
88	Henicosafuoroundecanoic acid	2058-94-8	0.01%
89	Heptacosafuorotetradecanoic acid	376-06-7	0.01%
90	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated (OPEO) <i>[covering well-defined substances and UVCB substances, polymers and homologues]</i>	-	0.01%
91	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide)) (ADCB) (*12)	123-77-3	0.05%
92	4-Nonylphenol, branched and linear <i>[substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof]</i>	-	0.01%
93	Hexahydro-2-benzofuran-1,3-dione (HHPA) Cis-cyclohexane-1,2-dicarboxylic anhydride Trans-cyclohexane-1,2-dicarboxylic anhydride	85-42-7 13149-00-3 14166-21-3	0.01%
94	Hexahydromethylphthalic anhydride (MHHPA) Hexahydro-4-methylphthalic anhydride Hexahydro-1-methylphthalic anhydride Hexahydro-3-methylphthalic anhydride	25550-51-0 19438-60-9 48122-14-1 57110-29-9	0.01%
95	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	0.01%
96	Diisopentylphthalate	605-50-5	
97	N-pentyl-isopentylphthalate	776297-69-9	
98	Methoxyacetic acid (MAA)	625-45-6	0.01%
99	N,N-dimethylformamide	68-12-2	0.01%
100	1,2-Diethoxyethane	629-14-1	0.01%
101	Diethyl sulphate	64-67-5	0.01%
102	Dimethyl sulphate	77-78-1	0.01%
103	N-methylacetamide	79-16-3	0.01%

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	Substances	CAS No.	Reporting Limit
104	1-bromopropane (n-propyl bromide)	106-94-5	0.01%
105	Furan	110-00-9	0.01%
106	Methyloxirane (Propylene oxide)	75-56-9	0.01%
107	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	0.01%
108	Dibutyltin dichloride (DBTC) (*3)	683-18-1	0.01%
109	Dinoseb (6-sec-butyl-2,4-dinitrophenol)	88-85-7	0.01%
110	4,4'-methylenedi-o-toluidine	838-88-0	0.01%
111	4,4'-oxydianiline and its salts	101-80-4	0.01%
112	4-Aminoazobenzene	60-09-3	0.01%
113	4-methyl-m-phenylenediamine (toluene-2,4-diamine)	95-80-7	0.01%
114	6-methoxy-m-toluidine (p-cresidine)	120-71-8	0.01%
115	Biphenyl-4-ylamine	92-67-1	0.01%
116	o-aminoazotoluene	97-56-3	0.01%
117	o-Toluidine; 2-	95-53-4	0.01%
118	Acetic acid, lead salt, basic (*3)	51404-69-4	0.01%
119	Trilead bis(carbonate)dihydroxide (*3)	1319-46-6	0.01%
120	Lead oxide sulfate (*3)	12036-76-9	0.01%
121	[Phthalato(2-)]dioxotrilead (*3)	69011-06-9	0.01%
122	Dioxobis(stearato)trilead (*3)	12578-12-0	0.01%
123	Fatty acids, C16-18, lead salts (*3)	91031-62-8	0.01%
124	Lead bis(tetrafluoroborate) (*3)	13814-96-5	0.01%
125	Lead cyanamidate (*3)	20837-86-9	0.01%
126	Lead dinitrate (*3)	10099-74-8	0.01%
127	Lead monoxide (Lead oxide) (*3)	1317-36-8	0.01%
128	Orange lead (Lead tetroxide) (*3)	1314-41-6	0.01%
129	Lead titanium trioxide (*3)	12060-00-3	0.01%
130	Lead Titanium Zirconium Oxide (*3)	12626-81-2	0.01%
131	Pyrochlore, antimony lead yellow (*3)	8012-00-8	0.01%
132	Pentalead tetraoxide sulphate (*3)	12065-90-6	0.01%
133	Silicic acid, barium salt (1:1), lead-doped (*3)	68784-75-8	0.01%
134	Silicic acid, lead salt (*3)	11120-22-2	0.01%
135	Sulfurous acid, lead salt, dibasic (*3)	62229-08-7	0.01%
136	Tetraethyllead (*3)	78-00-2	0.01%
137	Tetralead trioxide sulphate (*3)	12202-17-4	0.01%
138	Trilead dioxide phosphonate (*3)	12141-20-7	0.01%
139	Dipentyl phthalate (DPP)	131-18-0	0.01%
140	Ammonium pentadecafluorooctanoate (APFO) (*13)	3825-26-1	0.01%
141	Pentadecafluorooctanoic acid (PFOA)	335-67-1	0.01%
142	Cadmium (*3)	7440-43-9	0.01%
143	Cadmium oxide (*3)	1306-19-0	0.01%
144	4-Nonylphenol, branched and linear, ethoxylated (NPEO) [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, ethoxylated covering UVCB- and well-defined substances, polymers and homologues, which include any of the individual isomers and/or combinations thereof]	-	0.01%

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	Substances	CAS No.	Reporting Limit
145	Dihexyl phthalate	84-75-3	0.01%
146	Trixylyl phosphate	25155-23-1	0.01%
147	Imidazolidine-2-thione; 2-imidazoline-2-thiol (Ethylenethiourea)	96-45-7	0.01%
148	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	573-58-0	0.01%
149	Disodium 4-amino-3-[[4'-[(2,4-diaminophenyl)azo][1,1'-biphenyl]-4-yl]azo]-5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate (C.I. Direct Black 38)	1937-37-7	0.01%
150	Lead di(acetate) (*3)	301-04-2	0.01%
151	Cadmium Sulphide (*3)	1306-23-6	0.01%
152	1,2-Benzenedicarboxylicacid, 1,2-dihexyl ester, branched and linear	68515-50-4	0.01%
153	Cadmium chloride (*3)	10108-64-2	0.01%
154	Sodium perborate; perboric acid, sodium salt (*3)	---	0.01%
155	Sodium peroxometaborate (*3)	7632-04-4	0.01%
156	Cadmium fluoride(*3)	7790-79-6	0.01%
157	Cadmium sulphate(*3)	10124-36-4; 31119-53-6	0.01%
158	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	0.01%
159	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	0.01%
160	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)(*14)	15571-58-1	0.01%
161	Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate and 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE and MOTE)(*15)	---	0.01%

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Remarks:

- (*3) The substance is tested in terms of its respective elements (As, Pb, Co, B, Cd)
- (*4) The substance is tested in terms of Cr (VI)
- (*5) The substance is tested and calculated in terms of Tributyl tin.
- (*6) The substance is confirmed and tested in terms of Boric acid
- (*7) The substances are UVCB (substance of unknown or variable composition, complex reaction products or biological materials), which are identified by its main constituents.
- (*8) Individual concentrations to the constituent of UVCB with an amount of < 0.01% were not considered by the calculation of the sum.
- (*9) The test result is based on microscopic and chemical evaluation.
- (*10) The substance is quantified in terms of Michler's Ketone and Michler's Base by LC-MS, as Michler's Ketone or Michler's Base was found exceeds 0.01%
- (*11) The oligomer content is determined by Py-GC/MS.
- (*12) The content of diazene-1,2-dicarboxamide is analyzed in term of its breakdown product
- (*13) The substance is tested in terms of pentadecafluorooctanoate

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Sample Photo:



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