

Photo of the Submitted Sample

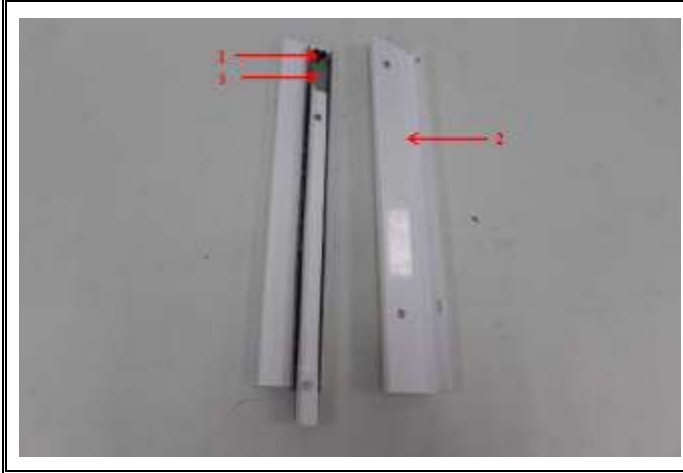


Photo of the Submitted Sample





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TEST RESULT

Total Cadmium Content

Test methods: The sample is comminuted and digested with acid mixtures. Cd content is determined with ICP-AES technique (Reference: US EPA 3050B/3051/3052)

Parameter	Unit	MDL	Result						
			1	2	3	5	16	17	18
Cadmium (Cd)	mg/kg	10	ND	ND	ND	ND	ND	ND	ND

Parameter	Unit	MDL	Result				
			4+14+15	6+7	10+11	8+9	12+13
Cadmium (Cd)	mg/kg	10	ND	ND	ND	ND	ND

Note: mg/kg= milligram per kilogram
 % = percentage
 1 mg/kg = 0.0001%
 MDL = Method Detection Limit
 ND = Not Detected (< MDL)
 “-“ = Not Regulated

II. Phthalate Test & As Applicant's requirement

Test Method: Extraction with solvent, analysed by Gas Chromatography Mass Spectrometer.

Parameter	CAS No.	Unit	MDL	Result			Client's Limit
				1	2	5	
Dibutyl phthalate (DBP)	84-74-2	%	0.005	ND	ND	ND	0.05
Butyl benzyl phthalate (BBP)	85-68-7	%	0.005	ND	ND	ND	0.05
Di-2-ethylhexyl phthalate (DEHP)	117-81-7	%	0.005	0.029	ND	ND	0.05
Di-n-octyl phthalate (DNOP)	117-84-0	%	0.005	ND	ND	ND	0.05
Di-iso-decyl phthalate (DIDP)	26761-40-0	%	0.005	ND	ND	ND	0.05
Di-iso-nonyl phthalate (DINP)	28553-12-0	%	0.005	0.037	ND	ND	0.05
Conclusion	-	-	-	PASS	PASS	PASS	-

Parameter	CAS No.	Unit	MDL	Result			Client's Limit
				4+14+15	6+7	10+11	
Dibutyl phthalate (DBP)	84-74-2	%	0.005	ND	ND	ND	0.05
Butyl benzyl phthalate (BBP)	85-68-7	%	0.005	ND	ND	ND	0.05
Di-2-ethylhexyl phthalate (DEHP)	117-81-7	%	0.005	ND	ND	ND	0.05
Di-n-octyl phthalate (DNOP)	117-84-0	%	0.005	ND	ND	ND	0.05
Di-iso-decyl phthalate (DIDP)	26761-40-0	%	0.005	ND	ND	ND	0.05
Di-iso-nonyl phthalate (DINP)	28553-12-0	%	0.005	ND	ND	ND	0.05
Conclusion	-	-	-	PASS	PASS	PASS	-



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TEST RESULT

II. Phthalate Test & As Applicant's requirement

Test Method: Extraction with solvent, analysed by Gas Chromatography Mass Spectrometer.

Parameter	CAS No.	Unit	MDL	Result		Client's Limit
				8+9	12+13	
Dibutyl phthalate (DBP)	84-74-2	%	0.005	ND	ND	0.05
Butyl benzyl phthalate (BBP)	85-68-7	%	0.005	ND	ND	0.05
Di-2-ethylhexyl phthalate (DEHP)	117-81-7	%	0.005	ND	ND	0.05
Di-n-octyl phthalate (DNOP)	117-84-0	%	0.005	ND	ND	0.05
Di-iso-decyl phthalate (DIDP)	26761-40-0	%	0.005	ND	ND	0.05
Di-iso-nonyl phthalate (DINP)	28553-12-0	%	0.005	ND	ND	0.05
Conclusion	-	-	-	PASS	PASS	-

Note: mg/kg= milligram per kilogram
% = percentage
1 mg/kg = 0.0001%
MDL = Method Detection Limit
ND = Not Detected (< MDL)
“-“ = Not Regulated

TEST RESULT

III. Migration of Certain Elements – EN 71 Part 3: 2013 with Amendment A1: 2014

Test Method : EN 71 Part 3: 2013 with Amendment A1: 2014: Safety of Toys-Migration of certain elements

See Soluble Element (Parameter) and its corresponding Maximum Allowable Limit (Req.) in Result Table	Category I	Dry, brittle, powder-like or pliable toy material
	Category II	Liquid or sticky toy material
	Category III	Scraped-off toy material

-	Unit	Non-German Req.	German Req.	Result			
Test Item(s)	-	-		1	2	4	5
Category	III	III	III	III	III	III	III
Parameter	-	-	-	-	-	-	-
Mass of Trace Amount	g	-	-	-	-	-	-
Boron (B)	mg/kg	15000	15000	<1500	<1500	<1500	<1500
Aluminium (Al)	mg/kg	70000	70000	<7000	<7000	<7000	<7000
Chromium III (Cr III)	mg/kg	460	460	0.144 [®]	<46	0.046 [®]	0.045 [®]
Chromium VI (Cr VI)	mg/kg	0.2	0.2	0.144 [®]	<0.02	0.046 [®]	0.045 [®]
Manganese (Mn)	mg/kg	15000	15000	<1500	<1500	<1500	<1500
Cobalt (Co)	mg/kg	130	130	<13	<13	<13	<13
Nickel (Ni)	mg/kg	930	930	<93	<93	<93	<93
Copper (Cu)	mg/kg	7700	7700	<770	<770	<770	<770
Zinc (Zn)	mg/kg	46000	46000	<4600	<4600	<4600	<4600
Arsenic (As)	mg/kg	47	47	<4.7	<4.7	<4.7	<4.7
Selenium (Se)	mg/kg	460	460	<46	<46	<46	<46
Strontium (Sr)	mg/kg	56000	56000	<5600	<5600	<5600	<5600
Cadmium (Cd)	mg/kg	17	17	<1.7	<1.7	<1.7	<1.7
Tin (Sn)	mg/kg	180000	180000	<18000	<18000	<18000	<18000
Organic tin	mg/kg	12	12	<12*	<12*	<12*	<12*
Antimony (Sb)	mg/kg	560	560	<56	<56	<56	<56
Barium (Ba)	mg/kg	18750	18750	<1875	<1875	<1875	<1875
Mercury (Hg)	mg/kg	94	94	<9.4	<9.4	<9.4	<9.4
Lead (Pb)	mg/kg	160	90	<2.3	<2.3	<2.3	<2.3
Conclusion	-	-	-	PASS	PASS	PASS	PASS

TEST RESULT

III. Migration of Certain Elements – EN 71 Part 3: 2013 with Amendment A1: 2014

Test Method : EN 71 Part 3: 2013 with Amendment A1: 2014: Safety of Toys-Migration of certain elements

See Soluble Element (Parameter) and its corresponding Maximum Allowable Limit (Req.) in Result Table	Category I	Dry, brittle, powder-like or pliable toy material
	Category II	Liquid or sticky toy material
	Category III	Scraped-off toy material

-	Unit	Non-German Req.	German Req.	Result			
				6	7	8	9
Test Item(s)	-	-		6	7	8	9
Category	III	III	III	III	III	III	III
Parameter	-	-	-	-	-	-	-
Mass of Trace Amount	g	-	-	-	-	-	-
Boron (B)	mg/kg	15000	15000	<1500	<1500	<1500	<1500
Aluminium (Al)	mg/kg	70000	70000	<7000	<7000	<7000	<7000
Chromium III (Cr III)	mg/kg	460	460	0.042 [®]	0.032 [®]	0.032 [®]	0.053 [®]
Chromium VI (Cr VI)	mg/kg	0.2	0.2	0.042 [®]	0.032 [®]	0.032 [®]	0.053 [®]
Manganese (Mn)	mg/kg	15000	15000	<1500	<1500	<1500	<1500
Cobalt (Co)	mg/kg	130	130	<13	<13	<13	<13
Nickel (Ni)	mg/kg	930	930	<93	<93	<93	<93
Copper (Cu)	mg/kg	7700	7700	<770	<770	<770	<770
Zinc (Zn)	mg/kg	46000	46000	<4600	<4600	<4600	<4600
Arsenic (As)	mg/kg	47	47	<4.7	<4.7	<4.7	<4.7
Selenium (Se)	mg/kg	460	460	<46	<46	<46	<46
Strontium (Sr)	mg/kg	56000	56000	<5600	<5600	<5600	<5600
Cadmium (Cd)	mg/kg	17	17	<1.7	<1.7	<1.7	<1.7
Tin (Sn)	mg/kg	180000	180000	<18000	<18000	<18000	<18000
Organic tin	mg/kg	12	12	<12*	<12*	<12*	<12*
Antimony (Sb)	mg/kg	560	560	<56	<56	<56	<56
Barium (Ba)	mg/kg	18750	18750	<1875	<1875	<1875	<1875
Mercury (Hg)	mg/kg	94	94	<9.4	<9.4	<9.4	<9.4
Lead (Pb)	mg/kg	160	90	<2.3	<2.3	<2.3	<2.3
Conclusion	-	-	-	PASS	PASS	PASS	PASS

TEST RESULT

III. Migration of Certain Elements – EN 71 Part 3: 2013 with Amendment A1: 2014

Test Method : EN 71 Part 3: 2013 with Amendment A1: 2014: Safety of Toys-Migration of certain elements

See Soluble Element (Parameter) and its corresponding Maximum Allowable Limit (Req.) in Result Table	Category I	Dry, brittle, powder-like or pliable toy material
	Category II	Liquid or sticky toy material
	Category III	Scraped-off toy material

-	Unit	Non-German Req.	German Req.	Result			
Test Item(s)	-	-		10	11	12	13
Category	III	III	III	III	III	III	III
Parameter	-	-	-	-	-	-	-
Mass of Trace Amount	g	-	-	-	-	-	-
Boron (B)	mg/kg	15000	15000	<1500	<1500	<1500	<1500
Aluminium (Al)	mg/kg	70000	70000	<7000	<7000	<7000	<7000
Chromium III (Cr III)	mg/kg	460	460	0.048 [®]	0.025 [®]	0.060 [®]	0.152 [®]
Chromium VI (Cr VI)	mg/kg	0.2	0.2	0.048 [®]	0.025 [®]	0.060 [®]	0.152 [®]
Manganese (Mn)	mg/kg	15000	15000	<1500	<1500	<1500	<1500
Cobalt (Co)	mg/kg	130	130	<13	<13	<13	<13
Nickel (Ni)	mg/kg	930	930	<93	<93	<93	<93
Copper (Cu)	mg/kg	7700	7700	<770	<770	<770	<770
Zinc (Zn)	mg/kg	46000	46000	<4600	<4600	<4600	<4600
Arsenic (As)	mg/kg	47	47	<4.7	<4.7	<4.7	<4.7
Selenium (Se)	mg/kg	460	460	<46	<46	<46	<46
Strontium (Sr)	mg/kg	56000	56000	<5600	<5600	<5600	<5600
Cadmium (Cd)	mg/kg	17	17	<1.7	<1.7	<1.7	<1.7
Tin (Sn)	mg/kg	180000	180000	<18000	<18000	<18000	<18000
Organic tin	mg/kg	12	12	<12*	<12*	<12*	<12*
Antimony (Sb)	mg/kg	560	560	<56	<56	<56	<56
Barium (Ba)	mg/kg	18750	18750	<1875	<1875	<1875	<1875
Mercury (Hg)	mg/kg	94	94	<9.4	<9.4	<9.4	<9.4
Lead (Pb)	mg/kg	160	90	<2.3	<2.3	<2.3	<2.3
Conclusion	-	-	-	PASS	PASS	PASS	PASS

TEST RESULT

III. Migration of Certain Elements – EN 71 Part 3: 2013 with Amendment A1: 2014

Test Method : EN 71 Part 3: 2013 with Amendment A1: 2014: Safety of Toys-Migration of certain elements

See Soluble Element (Parameter) and its corresponding Maximum Allowable Limit (Req.) in Result Table	Category I	Dry, brittle, powder-like or pliable toy material
	Category II	Liquid or sticky toy material
	Category III	Scraped-off toy material

-	Unit	Non-German Req.	German Req.	Result	
Test Item(s)	-	-		14	15
Category	III	III	III	III	III
Parameter	-	-	-	-	-
Mass of Trace Amount	g	-	-	-	-
Boron (B)	mg/kg	15000	15000	<1500	<1500
Aluminium (Al)	mg/kg	70000	70000	<7000	<7000
Chromium III (Cr III)	mg/kg	460	460	0.050 [®]	0.034 [®]
Chromium VI (Cr VI)	mg/kg	0.2	0.2	0.050 [®]	0.034 [®]
Manganese (Mn)	mg/kg	15000	15000	<1500	<1500
Cobalt (Co)	mg/kg	130	130	<13	<13
Nickel (Ni)	mg/kg	930	930	<93	<93
Copper (Cu)	mg/kg	7700	7700	<770	<770
Zinc (Zn)	mg/kg	46000	46000	<4600	<4600
Arsenic (As)	mg/kg	47	47	<4.7	<4.7
Selenium (Se)	mg/kg	460	460	<46	<46
Strontium (Sr)	mg/kg	56000	56000	<5600	<5600
Cadmium (Cd)	mg/kg	17	17	<1.7	<1.7
Tin (Sn)	mg/kg	180000	180000	<18000	<18000
Organic tin	mg/kg	12	12	<12*	<12*
Antimony (Sb)	mg/kg	560	560	<56	<56
Barium (Ba)	mg/kg	18750	18750	<1875	<1875
Mercury (Hg)	mg/kg	94	94	<9.4	<9.4
Lead (Pb)	mg/kg	160	90	<2.3	<2.3
Conclusion	-	-	-	PASS	PASS



Annex

Remark: The client declares that the above tested material will be used in below styles.

E401	E501	E601	E701	E801	
E402	E502	E602	E702	E802	
E403	E503	E603	E703	E803	
E404	E504	E604	E704	E804	E605
E411	E511	E611	E711	E811	
E412	E512	E612	E712	E812	
E413	E513	E613	E713	E813	
	S501	S601	S701	S801	
	S502	S602	S702	S802	
	S503	S603	S703	S803	
	S504	S604	S704	S804	
	S511	S611	S711	S811	
	S512	S612	S712	S812	
	S513	S613	S713	S813	