

Report No.: GNBC24060506EN

The following information was/were submitted and identified by/on behalf of the client:

Applicant	:	TIROFLX (NINGBO) TRADE CO., LTD.
Address	:	ROOM 801, NO. 10, NORTH BANK FORTUNE CENTER NINGBO
Sample Name	:	SUN SHADE
Sample Model	:	66836
Country of Origin	:	China
Exported to	:	Europe
Sample Receive Date	:	Jun. 05, 2024
Sample Testing Period	:	Jun. 05, 2024 - Jun. 07, 2024

Test Result Summary:

As requested by the applicant, for details refer to attached page(s).

TEST ITEM(S)	TEST REQUESTED	CONCLUSION(S)		
Mechanical and physical	EN 71-1:2014+A1:2018 - Safety of toys - Part 1	PASS [#]		
properties	(Excluding packaging and labeling information)			
Migration of certain elements	EN 71-3:2019+A1:2021 - Safety of toys - Part 3	PASS [#]		
	Entry 23 of Commission Regulation (EU) 2016/217, (EU) No			
Cadmium(Cd) content	835/2012 and (EU) No 494/2011 amending Annex XVII of	PASS		
	REACH Regulation (EC) No 1907/2006			
	Entry 43 of Commission Regulation (EU) 2020/2096 and			
Azo-dyes	(EC) No 552/2009 amending Annex XVII of REACH	PASS		
	Regulation (EC) No 1907/2006			
	Testing and assessment of Polycyclic Aromatic			
Polycyclic Aromatic	Hydrocarbons (PAHs) in the awarding of GS mark published	DAGO		
Hydrocarbon (PAHs)	by Product Safety Commission (AfPS) (issued on 10. April	PASS		
	2020)			

Note: "#"=This is not a toy; the test(s) was applied as per client request. There may be additional hazards and labelling requirements that are not covered by this standard.

Authorized signature:

Lab Manager: Gavin Zhou

Jun. 07, 2024



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Test Result(s):

1. Mechanical and physical properties - EN 71-1:2014+A1:2018, Safety of Toys, Part 1

As specified in European Standard EN 71-1:2014+A1:2018 of Mechanical and physical properties

Labelled Age Group	:	Not stated
Applicant's Specified Testing Age	:	3+ Years
Applied Testing Age	:	3+ Years

Applied Tes	sting Age : 3+ Years	
Clause	Test Item(s)	Assessment
4	General Requirements	Assessment
4.1	Material cleanliness (by visual assessment)	PASS
4.1	Assembly	NA
4.2	Flexible plastic sheeting	NA
4.4	Toy bags	NA
4.5	Glass	NA
4.6	Expanding materials	NA
4.0	Edges	NA
4.8	Points and metallic wires	PASS
4.9	Protruding parts	NA
4.10	Parts moving against each other	NA
4.10.1	Folding and sliding mechanisms	NA
4.10.2	Driving mechanisms	NA
4.10.3	Hinges	NA
4.10.4	Springs	NA
4.11	Mouth-actuated toys and other toys intended to be put in the mouth	NA
4.12	Balloons	NA
4.13	Cords of toy kites and other flying toys	NA
4.14	Enclosures	NA
4.14.1	Toys which a child can enter	NA
4.14.2	Masks and helmets	NA
4.15	Toys intended to bear the mass of a child	NA
4.15.1	Toys propelled by a child or by other means	NA
4.15.2	Toy bicycles	NA
4.15.3	Rocking horses and similar toys	NA
4.15.4	Toys not propelled by a child	NA
4.15.5	Toy scooters	NA
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Clause	Test Item(s)	Assessment
4.16	Heavy immobile toys	NA
4.17	Projectile toys	NA
4.17.2	All projectiles	NA
4.17.3	Projectile toys with stored energy	NA
4.17.4	Certain projectile toys without stored energy	NA
4.18	Aquatic toys and inflatable toys	NA
4.19	Percussion caps specifically designed for use in toys and toys using percussion caps	NA
4.20	Acoustics	NA
4.20.2.2	Close-to-the-ear toys	NA
4.20.2.3	Table-top or floor toys	NA
4.20.2.4	Hand-held toys	NA
4.20.2.5	Toys using headphones or earphones	NA
4.20.2.6	Rattles	NA
4.20.2.7	Squeeze toys	NA
4.20.2.8	Pull-along or push toys	NA
4.20.2.9	Percussion toys	NA
4.20.2.10	Wind toys	NA
4.20.2.11	Cap-firing toys	NA
4.20.2.12	Voice toys	NA
4.21	Toys containing a non-electrical heat source	NA
4.22	Small balls	NA
4.23	Magnets	NA
4.23.2	Toys other than magnetic/electrical experimental sets intended for children over 8	NA
	years	
4.23.3	Magnetic/electrical experimental sets intended for children over 8 years	NA
4.24	Yo-yo balls	NA
4.25	Toys attached to food	NA
4.26	Toy Disguise Costumes	NA
4.27 4.27.2	Flying toys	NA NA
4.27.2	Rotors and propellers on flying toys Rotors and propellers on remote controlled flying toys	NA
27.0 5	Toys intended for children under 36 months	
5.1	General requirements	NA
5.2	Soft-filled toys and soft-filled parts of a toy	NA
5.3	Plastic sheeting	NA
5.4	Cords, chains and electrical cables in toys	NA
5.4.2	Cords and chains in toys intended for children under 18 months	NA
5.4.3	Cords and chains in toys intended for children of 18 months or over but under 36	NA



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Clause	Test Item(s) months	Assessment
5.4.4	Fixed loops, tangled loops and nooses	NA
5.4.5	Cords and chains on pull along toys	NA
5.4.6	Electrical cables	NA
5.4.7	Cross-sectional dimension of certain cords	NA
5.4.8	Self-retracting cords	NA
5.4.9	Toys attached to or intended to be strung across a cradle, cot or perambulator	NA
5.5	Liquid-filled toys	NA
5.6	Speed limitation of electrically-driven ride-on toys	NA
5.7	Glass and porcelain	NA
5.8	Shape and size of certain toys	NA
5.9	Toys comprising monofilament fibres	NA
5.10	Small balls	NA
5.11	Play figures	NA
5.12	Hemispheric-shaped toys	NA
5.13	Suction cups	NA
5.14	Straps intended to be worn fully or partially around the neck	NA
5.15	Sledges with cords for pulling	NA
6	Packaging	NA
7	Warnings, markings and instructions for use	
7.1	General	NA
7.2	Toys not intended for children under 36 months	NA
7.3	Latex balloons	NA
7.4	Aquatic toys	NA
7.5	Functional toys	NA
7.6	Hazardous sharp functional edges and points	NA
7.7	Projectile toys	NA
7.8	Imitation protective masks and helmets	NA
7.9	Toy kites	NA
7.10	Roller skates, inline skates, skateboards and certain other ride-on toys	NA
7.11	Toys intended to be strung across a cradle, cot, or perambulator	NA
7.12	Liquid-filled teethers	NA
7.13	Percussion caps specifically designed for use in toys	NA
7.14	Acoustics	NA
7.15	Toy bicycles	NA
7.16	Toys intended to bear the mass of a child	NA
7.17	Toys comprising monofilament fibres	NA
7.18	Toy scooters	NA
7.19	Rocking horses and similar toys	NA
7.20	Magnetic/electrical experimental sets	NA
7.21	Toys with electrical cables exceeding 300 mm in length	NA



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Clause	Test Item(s)	Assessment
7.22	Toys with cords or chains intended for children of 18 months and over but under 36 months	NA
7.23	Toys intended to be attached to a cradle, cot or perambulator	NA
7.24	Sledges with cords for pulling	NA
7.25	Flying toys	NA
7.26	Improvised projectiles	NA

Labeling requirement (Washing/Cleaning instruction, CE mark, importer / manufacturer name and address, product identification) according to EN 71-1:2014+A1:2018 - Safety of toys - Part 1 and European Directive 2009/48/EC - Safety of toys

Summary table:

Items	Observation Result(s)	Location	
Washing/Cleaning instruction	NA	/	
CE mark	Absent	/	
Importer's Name & Address	Absent	1	
Manufacturer's Name & Address	Absent	1	
Product ID	Absent	1	

Note: 1. NA = Not Applicable.

> 2. The attention of the applicant was drawn to the need for the item to be labeled with the name and/or trade name and/or mark and address of the manufacturer or his authorized representative or the importer on its packaging together with a CE mark as specified in 2009/48/EC directive. If this information was not fixed to the toy itself, it should be accompanied by a notice in advising the purchaser to retain it. 3. CE mark should be visible from outside the packaging and its height must be at least 5mm.



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Test Part Description:

Part No.	Description	
<u>01</u>	Silvery metal film body (red style)	
<u>02</u>	Black non-woven fabric binding (red style)	
<u>03</u>	Black webbing (red style)	
<u>04</u>	Black soft plastic sucker (red style)	

2. Migration of certain elements - EN 71-3:2019+A1:2021, Safety of Toys, Part 3

Test Method: EN 71-3:2019+A1:2021, Acid extraction and determined by ICP-OES, ICP-MS For Category III: Scraped-off toy material

	Limit		DI	<u>Result(s)</u>
<u>Test item(s)</u>	<u>Limit</u>	<u>Unit</u>	RL	<u>04</u>
Soluble Aluminum (Al)	28130	mg/kg	200	N.D.
Soluble Antimony (Sb)	560	mg/kg	10	N.D.
Soluble Arsenic (As)	47	mg/kg	10	N.D.
Soluble Barium (Ba)	18750	mg/kg	50	N.D.
Soluble Boron (B)	15000	mg/kg	50	N.D.
Soluble Cadmium (Cd)	17	mg/kg	10	N.D.
Soluble Chromium (III)	460	mg/kg	5	N.D.
Soluble Chromium (VI)	0.053	mg/kg	0.0025	N.D.
Soluble Cobalt (Co)	130	mg/kg	10	N.D.
Soluble Copper (Cu)	7700	mg/kg	50	N.D.
Soluble Lead (Pb)	23	mg/kg	10	N.D.
Soluble Manganese (Mn)	15000	mg/kg	50	N.D.
Soluble Mercury (Hg)	94	mg/kg	10	N.D.
Soluble Nickel (Ni)	930	mg/kg	10	N.D.
Soluble Selenium (Se)	460	mg/kg	10	N.D.
Soluble Strontium (Sr)	56000	mg/kg	50	N.D.
Soluble Tin (Sn)	180000	mg/kg	50	N.D.
Soluble Organic Tin	12	mg/kg	5	N.D.
Soluble Zinc (Zn)	46000	mg/kg	200	N.D.
<u><u>Cc</u></u>	onclusion(s)			PASS

Note: 1. 1000mg/kg = 0.1%;

- 2. RL = Report Limit;
- 3. N.D. = Not Detected (<RL);
- 4. Soluble Chromium (III), Chromium (VI) and Organic Tin were not directly determined and were derived

from migration result(s) of Soluble Chromium element and Soluble Tin element respectively.



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3. Cadmium(Cd) content - REACH Regulation Annex XVII, Entry 23

Test Method: With reference to IEC 62321-5:2013, Acid digestion and determined by ICP-OES

Part No.	<u>Unit</u>	MDL	<u>Limit</u>	<u>Result(s)</u>	Conclusion(s)
<u>01</u>	mg/kg	2	100	N.D.	PASS
<u>04</u>	mg/kg	2	100	N.D.	PASS

Note: 1. 1000mg/kg = 0.1%;

2. MDL = Method Detection Limit;

3. N.D. = Not Detected (<MDL).

4. Azo-dyes - REACH Regulation Annex XVII, Entry 43

Test Method: EN ISO 14362-1:2017 & EN ISO 14362-3:2017, Solvent extraction and determined by GC-MS & HPLC/DAD

<u>ltem</u>	Test Hem(s)		11			Result(s)	
<u>No.</u>	Test Item(s)	<u>CAS No.</u>	<u>Unit</u>	MDL	<u>Limit</u>	<u>02</u>	<u>03</u>
1	4-aminobiphenyl	92-67-1	mg/kg	5	30	N.D.	N.D.
2	benzidine	92-87-5	mg/kg	5	30	N.D.	N.D.
3	4-chloro-o-toluidine	95-69-2	mg/kg	5	30	N.D.	N.D.
4	2-naphthylamine	91-59-8	mg/kg	5	30	N.D.	N.D.
5	o-aminoazotoluene#a	97-56-3	mg/kg	5	30	N.D.	N.D.
6	5-nitro-o-toluidine ^{#a}	99-55-8	mg/kg	5	30	N.D.	N.D.
7	4-chloroaniline	106-47-8	mg/kg	5	30	N.D.	N.D.
8	4-methoxy-m-phenylenediamine	615-05-4	mg/kg	5	30	N.D.	N.D.
9	4,4'-diaminophenylmethane	101-77-9	mg/kg	5	30	N.D.	N.D.
10	3,3'-dichlorobenzidine	91-94-1	mg/kg	5	30	N.D.	N.D.
11	3,3'-dimethoxybenzidine	119-90-4	mg/kg	5	30	N.D.	N.D.
12	3,3'-dimethylbenzidine	119-93-7	mg/kg	5	30	N.D.	N.D.
13	4,4'-methylenedi-o-toluidine	838-88-0	mg/kg	5	30	N.D.	N.D.
14	p-cresidine	120-71-8	mg/kg	5	30	N.D.	N.D.
15	4,4'-methylene-bis-(2-chloro-aniline)	101-14-4	mg/kg	5	30	N.D.	N.D.
16	4,4'-oxydianiline	101-80-4	mg/kg	5	30	N.D.	N.D.
17	4,4'-thiodianiline	139-65-1	mg/kg	5	30	N.D.	N.D.
18	o-Toluidine	95-53-4	mg/kg	5	30	N.D.	N.D.
19	2,4-Toluylendiamine	95-80-7	mg/kg	5	30	N.D.	N.D.
20	2,4,5-Trimethylaniline	137-17-7	mg/kg	5	30	N.D.	N.D.
21	o-anisidine	90-04-0	mg/kg	5	30	N.D.	N.D.

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Item	Test Item(s)	CAS No.	<u>Unit</u>	MDL	<u>Limit</u>	<u>Result(s)</u>	
<u>No.</u>						<u>02</u>	<u>03</u>
22	4-aminoazobenzene ^{#b}	60-09-3	mg/kg	5	30	N.D.	N.D.
Conclusion(s)							PASS

Note: 1. 1000mg/kg = 0.1%;

- 2. MDL = Method Detection Limit;
- 3. N.D. = Not Detected (<MDL);
- 4. a. The CAS numbers 97-56-3 (No. 5) and 99-55-8 (No. 6) are further reduced to CAS numbers 95-53-4 (No. 18) and 95-80-7 (No. 19).

b. Azo colorants that are able to form 4-aminoazobenzene (No. 22), generate under the condition of this method aniline (CAS No. 62-53-3) and 1,4-phenylenediamine (CAS No. 106-50-3). Due to detection limits, if aniline (CAS No. 62-53-3) and/or 1,4-phenylenediamine (CAS No. 106-50-3) is detected, 4-aminoazobenzene (No. 22) should be further tested by EN ISO 14632-3 method.

5. Polycyclic Aromatic Hydrocarbon (PAHs) - AfPS GS 2019:01 PAK

Test Method: With reference to AfPS GS 2019:01 PAK, Solvent extraction and determined by GC-MS

Test Herrico	CAS No.	<u>Unit</u>	MDL	<u>Limit</u>	Result(s)	
<u>Test Item(s)</u>					<u>01</u>	<u>04</u>
Benzo(a)Pyrene	50-32-8	mg/kg	0.2	1	N.D.	N.D.
Benzo(e)Pyrene	192-97-2	mg/kg	0.2	1	N.D.	N.D.
Benzo(a)Anthracene	56-55-3	mg/kg	0.2	1	N.D.	N.D.
Benzo(b)Fluoranthene	205-99-2	mg/kg	0.2	1	N.D.	N.D.
Benzo(j)Fluoranthene	205-82-3	mg/kg	0.2	1	N.D.	N.D.
Benzo(k)Fluoranthene	207-08-9	mg/kg	0.2	1	N.D.	N.D.
Chrysene	218-01-9	mg/kg	0.2	1	N.D.	N.D.
Dibenzo(a,h)Anthracene	53-70-3	mg/kg	0.2	1	N.D.	N.D.
Benzo(g,h,i)Perylene	191-24-2	mg/kg	0.2	1	N.D.	N.D.
Indeno(1,2,3-cd)Pyrene	193-39-5	mg/kg	0.2	1	N.D.	N.D.
Phenanthrene	85-01-8	mg/kg	0.2		N.D.	N.D.
Pyrene	129-00-0	mg/kg	0.2		N.D.	N.D.
Anthracene	120-12-7	mg/kg	0.2		N.D.	N.D.
Fluoranthene	206-44-0	mg/kg	0.2		N.D.	N.D.
Naphthalene	91-20-3	mg/kg	0.2	10	N.D.	0.3
Sum of Phenanthrene, Pyrene, Anthracene, Fluoranthene		mg/kg		50	N.D.	N.D.
Sum of above PAHs		mg/kg		50	N.D.	0.3
Product Category					3*	3*
Conclusion(s)						PASS

This report is only responsible for the tested sample(s) from the client, the testing result(s) is used for scientific research, teaching or internal quality control. Without the writing agreement of the company, the client is not allowed to copy the report in part (entire copy is excepted).

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Parameter	Category 1	Categ	jory 2	Categ	jory 3	
Polycyclic Aromatic Hydrocarbons (PAHs) (in mg/kg)	Materials intended to be placed in the mouth, or Materials coming into long -term skin contact (more than 30s) during the intended use - in toys according to	Materials not of category 1, co -term contact 30s) or short-t contact with sl intended or for	ming into long (more than erm repetitive kin during the	Materials not covered by category 1 nor by category 2, coming into short-term contact (up to 30s) with skin during the intended or foreseeable use		
	Directive 2009/48/EC or - for the use by children up to 3 years of age	a. used by children	b. other consumer products	a. used by children	b. other consumer products	
Benzo(a)Pyrene	< 0.2	< 0.2	< 0.5	< 0.5	<1	
Benzo(e)Pyrene	< 0.2	< 0.2	< 0.5	< 0.5	<1	
Benzo(a)Anthracene	< 0.2	< 0.2	< 0.5	< 0.5	<1	
Benzo(b)Fluoranthene	< 0.2	< 0.2	< 0.5	< 0.5	<1	
Benzo(j)Fluoranthene	< 0.2	< 0.2	< 0.5	< 0.5	<1	
Benzo(k)Fluoranthene	< 0.2	< 0.2	< 0.5	< 0.5	<1	
Chrysene	< 0.2	< 0.2	< 0.5	< 0.5	<1	
Dibenzo(a,h)Anthracene	< 0.2	< 0.2	< 0.5	< 0.5	<1	
Benzo(g,h,i)Perylene	< 0.2	< 0.2	< 0.5	< 0.5	<1	
Indeno(1,2,3-cd)Pyrene	< 0.2	< 0.2	< 0.5	< 0.5	<1	
Phenanthrene						
Pyrene	 <1 ●	<5	< 10	< 20	< 50	
Anthracene	(sum)	(sum)	(sum)	(sum)	(sum)	
Fluoranthene						
Naphthalene	<1	<2		< 10		
Sum of 15 PAHs	<1	<5	< 10	<20	<50	

Product Safety Commission (AfPS): Limits for PAHs

Note: 1. 1000mg/kg = 0.1%;

2. MDL = Method Detection Limit;

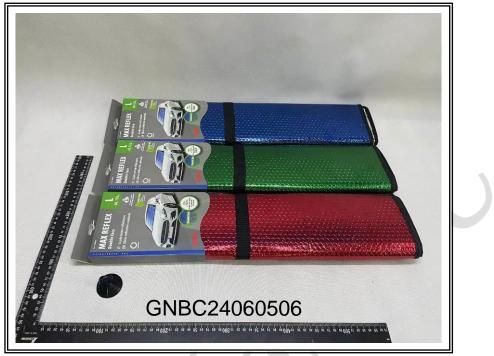
3. N.D. = Not Detected (<MDL);

4. "*" = As the information provided by client, the category of the tested part(s) is the product used by other consumer products.



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Sample Photo(s):



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End of Report