

TEST REPORT

Report No. : MAN:HL:1448000528

ISSUE DATE: 31st January, 2023



SWASTIK SPORTS FOUNDATION
 24, MOHKAMPUR PHASE-1, DELHI ROAD
 MEERUT – 250002
 INDIA
CONTACT PERSON : AKSHAT JAIN

THE FOLLOWING SAMPLE(S) WAS/WERE SUBMITTED AND IDENTIFIED BY/ON BEHALF OF THE CUSTOMER AS :

SAMPLE DESCRIPTION PET TENNIS BALLS
COLOUR FLUORESCENT YELLOW
LABELED AGE GRADING ABSENT
REQUESTED AGE GRADING 3 YEARS +
AGE GROUP APPLIED ON TOY 3 YEARS +

END USE PET TENNIS BALLS
COUNTRY OF DESTINATION UNITED STATES
COUNTRY OF ORIGIN INDIA
CONDITION OF SAMPLE COMPLETE AND OK

THE LOCATION OF PERFORMANCE OF THE LABORATORY ACTIVITIES :

SGS MANESAR LABORATORY: Mechanical And Physical Test, EN 71-1 : 2014 + A1 : 2018,ASTM F963, EN 71-2 : 2020-
 Flammability Of Toys

SGS GURUGRAM LABORATORY: Phthalate Content, Total Lead Content, EN 71-3: 2019 + A1:2021 – Migration Of Certain
 Elements, Heavy Metal In Substrate Material

LAB PROVIDED DETAILS :

SAMPLE RECD ON 24/01/2023
TEST PERFORMING DATE 24/01/2023 TO 31/01/2023

SUMMARY OF TEST RESULTS:

TEST REQUESTED	CONCLUSION
NABL ACCREDITED TESTS:	--
1. For compliance with the ASTM F963-17 Standard Consumer Safety Specification on Toy Safety - Mechanical And Physical Test	Pass
2. Flammability ASTM F963-17 Standard Consumer Safety Specification on Toy Safety	Pass
3. EN 71-1 : 2014 + A1 : 2018 – Mechanical And Physical Properties Labeling requirement (CE mark, importer / manufacturer mark (name, address), product identification) according to the Directive 2009/48/EC-Safety of toys	Pass
4. EN 71-2 : 2020- Flammability Of Toys	Pass
NON NABL ACCREDITED TESTS:	--
5. For compliance with the ASTM F963-17 Standard Consumer Safety Specification on Toy Safety - Heavy Metal In Substrate Material	Pass
6. Total Lead Content	Pass
7. Phthalate Content	Pass
8. EN 71-3: 2019 + A1:2021 – Migration Of Certain Elements	Pass

TEST REPORT

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TEST(S) RESULT & METHOD: PLEASE REFER TO NEXT PAGE(S) . RESULTS APPLY TO THE SAMPLE AS RECEIVED

Per Pro SGS India Pvt. Ltd.

Sandip Bhushan (Technical Manager)

Authorized Signatory

Email your Test Report Related Enquiries at Feedback.HLT@sgs.com

TEST REPORT

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ISSUE DATE: 31st January, 2023



TEST RESULTS:

**1. For compliance with the ASTM F963-17 Standard Consumer Safety Specification on Toy Safety –Mechanical And Physical Test:
Method: As Specified In ASTM F963-17 : Standard Consumer Safety Specification On Toys Safety.**

Clause	Description	Test Result
4.1	Material Quality	Pass
4.2	Flammability	Pass (Refer Table-01)
4.7	Accessible Edges	Pass
4.9	Accessible Points	Pass
4.34	Balls	Pass
5.0	Safety Labeling Requirements	--
5.1	Federal Government Requirements	Pass
5.2	Age Grading Labeling	See Remark-1
7.0	Producer's Markings	--
7.1	Producer's Markings	See Remark-2
8.0	Test methods	--
8.5	Normal use testing	Pass (No Hazard Observed)
8.7	Impact Test	Pass (No Hazard Observed@ 91cm)
8.8	Torque Test	Pass (No Hazard Observed 0.45 N-M)
8.9	Tension Test	Pass (No Hazard Observed@ 66.8 N)

2. FLAMMABILITY TEST ON SOLID (PART 1500.44, TITLE 16, U.S.A):-

Sample	Burning Rate (inch/sec)	Result
PET TENNIS BALLS	Did not ignite	Pass

Requirement: Level of acceptance ≤0.1 inch/sec (2.5 mm/s), maximum, along the major axis.

Note:- This sample is not a child toy, testing has been performed as per customer request.

- Remark :**
- The toy or package should indicate the minimum age for intended use.
 - It is drawn to your attention that either a principal component of a toy or the package of toy shall be marked with the name and address of the producer of the distributor.

TEST REPORT

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3. EN 71-1 : 2014 + A1 : 2018 – MECHANICAL & PHYSICAL PROPERTIES:

CLAUSE	DESCRIPTION	TEST RESULT
4	General requirements	
4.1	Material Cleanliness (Visual)	Pass
4.7	Edges	Pass
4.8	Points and metallic wires	Pass
4.22	Small Balls	Pass

Note:

- Only applicable clauses are shown here.
- This sample is not a child toy. Testing has been performed only as per customer request.

Labeling requirement (Washing/Cleaning instruction, CE mark, importer / manufacturer name and address, product identification) according to the Directive 2009/48/EC – Safety of toys

Summary table:

	OBSERVATION/RESULT	LOCATION
Washing/Cleaning instruction	Not Applicable	--
CE mark	Absent	--
Importer's Name &Address	Absent	--
Manufacturer's Name and Address	Absent	--
Product ID	Absent	--

- Note:**
1. According to Directive 2009/48/EC, a toy intended for use by children under 36 months must be designed an manufacturer in such a way that it can be cleaned. A textile toy must, to this end, be washable, except if it contains a mechanism that may be damaged if soak washed. The manufacturer should, if applicable, provide instructions on how the toy has to be cleaned.
 2. CE marking should be visible from outside the packing and its height must be at least 5mm.
 3. Manufacturer's and importer's name, registered trade name or registered trade mark and the address at which the manufacturer can be contracted must be indicated on the toy or, where that is not possible, on its packaging or in a document accompanying the toy.
 4. Manufacturers must ensure that their toys bear a type, batch, serial or model number or other element allowing their identification, or where the size or nature of the toy does not allow it, that the required information is provided on the packaging or in a document accompanying the toy.

4. FLAMMABILITY OF TOYS:

Method: As specified in European standard on safety of toys EN 71 Part 2: 2020.

Clause	Description	Test Result
4.1	General requirements	Pass

Note: Only applicable clauses are shown.

TEST REPORT

Report No. : MAN:HL:1448000528

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5. For compliance with the ASTM F963-17 Standard Consumer Safety Specification on Toy Safety -Heavy Metal In Substrate

Material:

Method: With refe. to ASTM F963-17 Clause 8.3.5; Analysis was performed by ICP-OES

Test Item(s)	Pb	Sb	As	Ba	Cd	Cr	Hg	Se	Conclusion
Migration Limit (ppm)-Other Than Modeling Clays	90	60	25	1000	75	60	60	500	
Specimen No.	Total Result (s) (ppm)								
1	ND	ND	ND	ND	ND	ND	ND	ND	PASS
2	ND	ND	ND	ND	ND	ND	ND	ND	PASS

Detection Limit: 10 ppm

Tested Item: 1.Green fabric,2.Ball Rubber (Black)

Note:

- ppm= parts per million.
- ND = Not Detected.
- Testing has been subcontracted to SGS Gurugram lab.

6. TOTAL LEAD CONTENT:

METHOD: With reference to CPSC test method: CPSC-CH-E1002-08.3; Analysis was performed by ICP-OES.

TEST NAME	TEST RESULT (ppm)		REQUIREMENT (ppm)
	1	2	
Total Lead Content	ND	ND	≤ 100
Conclusion	Pass	Pass	--

Detection Limit: 20 ppm

Tested Item: 1.Green fabric,2.Ball Rubber (Black)

Note:

- ND = Not Detected.
- Permissible limit has been taken from CPSIA regulation.
- Testing has been subcontracted to SGS Gurugram lab.

TEST REPORT

Report No. : MAN:HL:1448000528

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7. PHTHALATES CONTENT:

METHOD: With reference to CPSC-CH-C1001-09.4. Analysis was performed by Gas Chromatography / Mass Spectrometry

TEST ITEM	TEST RESULT (ppm)		REQUIREMENT (ppm)
	1	2	
Dibutyl Phthalate (DBP)	ND	ND	≤ 1000
Benzylbutyl Phthalate (BBP)	ND	ND	≤ 1000
Di-(2-ethylhexyl) Phthalate (DEHP)	ND	130	≤ 1000
Dicyclohexyl Phthalate (DCHP)	ND	ND	≤ 1000
Di-n-hexyl Phthalate (DHEXP/DnHP)	ND	ND	≤ 1000
Diisobutyl Phthalate (DIBP)	ND	ND	≤ 1000
Di-n-pentyl Phthalate (DPENP)	ND	ND	≤ 1000
Diisononyl Phthalate (DINP)	ND	ND	≤ 1000
Conclusion	Pass	Pass	--

Detection Limit: 100 ppm

Tested Item: 1.Green fabric, 2.Ball Rubber (Black)

Note:

- ppm=parts per million.
- ND = Not Detected.
- Permissible limit has been taken from CPSIA regulation.
- Testing has been subcontracted to SGS Gurugram lab.

TEST REPORT

Report No. : MAN:HL:1448000528

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8. MIGRATION OF CERTAIN ELEMENTS:

Method: With reference to EN 71-3: 2019 + A1:2021. Analysis of general elements was performed by ICP-OES.

Chromium (III) was obtained by calculation, Chromium (VI) was analyzed by IC-UV/VIS / IC-TLD / LC-ICP-MS / LC-DAD / IC-ICP- MS. Organic Tin was analyzed by GC-MS.

Category III Scrapped-off toy material:

Test Item	Result (mg/kg)		Reporting Limit (mg/kg)	Permissible Limit (mg/kg)
	1	2		
Mass of trace amount (mg)	--	--	--	--
Soluble Aluminium (Al)	ND	ND	50	28130
Soluble Antimony (Sb)	ND	ND	10	560
Soluble Arsenic (As)	ND	ND	10	47
Soluble Barium (Ba)	ND	ND	50	18,750
Soluble Boron (B)	ND	ND	50	15,000
Soluble Cadmium (Cd)	ND	ND	5	17
Soluble Chromium (III) # (Cr (III))	ND	ND	5	460
Soluble Chromium (VI) # (Cr (VI))	ND	ND	0.02	0.053
Soluble Cobalt (Co)	ND	ND	10	130
Soluble Copper (Cu)	ND	ND	50	7,700
Soluble Lead (Pb)	ND	ND	10	23
Soluble Manganese (Mn)	ND	ND	50	15,000
Soluble Mercury (Hg)	ND	ND	10	94
Soluble Nickel (Ni)	ND	ND	10	930
Soluble Selenium (Se)	ND	ND	10	460
Soluble Strontium (Sr)	ND	ND	50	56,000
Soluble Tin (Sn)	ND	ND	4.9	180,000
Soluble Organic Tin [^]	ND	ND	--	12
Soluble Zinc (Zn)	93	411	50	46,000
Conclusion	Pass	Pass	--	--

Tested Item: 1.Green fabric,2.Ball Rubber (Black)

Note:

- mg/kg = milligram per kilogram
- ND = Not Detected
- 1% = 10000 mg/kg = 10000 ppm
- # The test result of soluble chromium (III) and chromium (VI) were derived from soluble chromium screening and then confirmation test for soluble chromium (III) and soluble Chromium (VI) on component with soluble chromium exceeding the screening limit of 0.02 mg/kg soluble Cr.
- ^ The test result of soluble organic tin was derived from soluble tin screening and then confirmation test for soluble organic tin on component exceeding the screening limit of 4.9 mg/kg soluble Sn.
- Testing has been subcontracted to SGS Gurugram lab.

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Sample as Received



***** END OF REPORT*****