



中国认可
国际互认
检测
TESTING
CNAS L2929

Test Report

No.T52510290363XM

Date: APR 25, 2025

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BANGTENG TOYS FACTORY
CHENGHAI DISTRICT, SHANTOU CITY, GUANGDONG PROVINCE, CHINA

The results of this report are extracted from the test report number T52510290264XM where the sample(s) / material(s) of sample is(are) claimed to be identical.

The following samples were submitted and identified by/on behalf of the client as:

CHESS TOYS

Item No. : 3201, 3202, 3203, 3204, 3205, 3206, 3207, 3208, 3209, 3210, 3211, 3212, 3213, 3214, 3215, 3216, 3217, 3218, 3219, 3220, 3601, 3602, 3603, 3604, 3605, 3606, 3607, 3608, 3609, 3610, 3611, 3612, 3613, 3614, 3615, 3616, 3617, 3618, 3619, 3620, 4801, 4802, BT1301, BT1302, BT1303, BT1304, BT1305, BT1306, BT1307, BT1308, BT1309, BT1310, BT2101, BT2102, BT2103, BT2104, BT2105, BT2106, BT2107, BT2108, BT2109, BT2110, 38810, 3810-F, 48812, 4812-F, 49912, 49912-F, 1510A, 1510BC, 1510-F, 1503, 1504, 1505, 1506, 1507, 1508, 1509, 1510, 1520

Sample Receiving Date : APR 14, 2025
Further Information Date : APR 24, 2025
Testing Period : APR 14, 2025 TO APR 23, 2025



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Selected test(s) as requested by the client, please refer to test result page(s) for details:

	Test Requirement	Conclusion
1	EN 71-3:2019+A1:2021- Migration of certain elements (Category III:for scrapped-off toy material)	Pass
2	BS EN 71-3:2019+A1:2021- Migration of certain elements (Category III:for scrapped-off toy material)	Pass
3	BS EN71-3: 2019+ A2:2024 - Migration of certain elements (Category III:for scrapped-off toy material)	Pass
4	EN 71-3: 2019+ A2:2024 - Migration of certain elements (Category III:for scrapped-off toy material)	Pass

***** FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE(S) *****

Signed for and on behalf of
SGS-CSTC Standards Technical
Services Co., Ltd. Shenzhen Branch Testing Center

Scan to see the report



T52510290363XM

Verification:
check.sgsonline.com.cn

Qu Ping Kiky
Laboratory Manager
CNAS Approved Signatory



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Results:

Test Part Description:

SN ID	Sample No.	SGS Sample ID	Description
SN1	A1	XMN25-0007775-0001.C001	Black plastic
SN2	A2	XMN25-0007775-0001.C002	Yellow plastic
SN3	A3	XMN25-0007775-0001.C003	Red plastic
SN4	A4	XMN25-0007775-0001.C004	Black, grey coating on metal
SN5	A5	XMN25-0007775-0001.C005	Ivory plastic

Remarks:

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) “-” = Not Regulated

EN 71-3:2019+A1:2021- Migration of certain elements (Category III:for scrapped-off toy material)

Test Method: With reference to EN 71-3:2019+A1:2021, analysis was performed by ICP-OES, IC-UV, LC-ICP-MS or IC-ICP-MS.
Soluble Organic Tin was analyzed by GC-MS.

Test Item(s)	Limit	Unit(s)	MDL	A1	A2	A3
Mass of trace amount	-	mg	-	/	/	/
Soluble Aluminum(Al)	28130	mg/kg	50	ND	ND	ND
Soluble Antimony(Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic(As)	47	mg/kg	10	ND	ND	ND
Soluble Barium(Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Boron(B)	15000	mg/kg	50	ND	ND	ND
Soluble Cadmium(Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium(III)(CrIII)	460	mg/kg	5	ND	ND	ND
Soluble Chromium(VI)(Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Cobalt(Co)	130	mg/kg	10	ND	ND	ND
Soluble Copper(Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Lead(Pb)	23	mg/kg	5	ND	ND	ND
Soluble Manganese(Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Mercury(Hg)	94	mg/kg	10	ND	ND	ND
Soluble Nickel(Ni)	930	mg/kg	10	ND	ND	ND
Soluble Selenium(Se)	460	mg/kg	10	ND	ND	ND
Soluble Strontium(Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Tin(Sn)	180000	mg/kg	3	ND	ND	ND
Soluble Zinc(Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND
Conclusion				Pass	Pass	Pass



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Test Item(s)	Limit	Unit(s)	MDL	A4	A5
Mass of trace amount	-	mg	-	/	/
Soluble Aluminum(Al)	28130	mg/kg	50	2729	ND
Soluble Antimony(Sb)	560	mg/kg	10	ND	ND
Soluble Arsenic(As)	47	mg/kg	10	ND	ND
Soluble Barium(Ba)	18750	mg/kg	50	ND	ND
Soluble Boron(B)	15000	mg/kg	50	ND	ND
Soluble Cadmium(Cd)	17	mg/kg	5	ND	ND
Soluble Chromium(III)(CrIII)	460	mg/kg	5	7	ND
Soluble Chromium(VI)(Cr VI)	0.053	mg/kg	0.025	ND	ND
Soluble Cobalt(Co)	130	mg/kg	10	ND	ND
Soluble Copper(Cu)	7700	mg/kg	50	ND	ND
Soluble Lead(Pb)	23	mg/kg	5	ND	ND
Soluble Manganese(Mn)	15000	mg/kg	50	88	ND
Soluble Mercury(Hg)	94	mg/kg	10	ND	ND
Soluble Nickel(Ni)	930	mg/kg	10	ND	ND
Soluble Selenium(Se)	460	mg/kg	10	ND	ND
Soluble Strontium(Sr)	56000	mg/kg	50	ND	ND
Soluble Tin(Sn)	180000	mg/kg	3	6841	ND
Soluble Zinc(Zn)	46000	mg/kg	50	ND	ND
Sum of Soluble Organic Tin	12	mg/kg	-	0.6	-
Soluble Organic Tin*	12	mg/kg	-	-	ND
Methyl tin(MeT)	-	mg/kg	0.5	ND	-
Di-n-Propyltin(DProT)	-	mg/kg	0.5	ND	-
Dibutyl tin(DBT)	-	mg/kg	0.5	ND	-
Tributyl tin(TBT)	-	mg/kg	0.5	ND	-
n-Octyl tin(MOT)	-	mg/kg	0.5	ND	-
Tetrabutyl tin (TeBT)	-	mg/kg	0.5	ND	-
Diphenyl tin(DPhT)	-	mg/kg	0.5	ND	-
Di-n-octyl tin(DOT)	-	mg/kg	0.5	ND	-
Triphenyl tin(TPhT)	-	mg/kg	0.5	ND	-
Butyl tin(BuT)	-	mg/kg	0.5	0.6	-
Di-methyl tin(DMT)	-	mg/kg	0.5	ND	-
Conclusion				Pass	Pass

Notes:

(1) According to Chapter of 10.1.2 of EN 71-3:2019+A1:2021, Chromium (III) is calculated by the following formula:

Soluble Chromium (III) = Soluble Total Chromium - Soluble Chromium (VI)

(2) *Confirmation test of soluble organic tin is not required in case of soluble tin, after conversion, does not exceed the soluble organic tin requirement as specified in EN 71-3:2019+A1:2021.



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BS EN 71-3:2019+A1:2021- Migration of certain elements (Category III:for scrapped-off toy material)

Test Method: With reference to BS EN 71-3:2019+A1:2021, analysis was performed by ICP-MS, IC-UV or LC-ICP-MS.
Soluble Organic Tin was analyzed by GC-MS.

Test Item(s)	Limit	Unit(s)	MDL	A1	A2	A3
Mass of trace amount	-	mg	-	/	/	/
Soluble Antimony(Sb)	560	mg/kg	10	ND	ND	ND
Soluble Lead(Pb)	23	mg/kg	5	ND	ND	ND
Soluble Arsenic(As)	47	mg/kg	10	ND	ND	ND
Soluble Barium(Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Chromium(III)(CrIII)	460	mg/kg	5	ND	ND	ND
Soluble Chromium(VI)(Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Cadmium(Cd)	17	mg/kg	5	ND	ND	ND
Soluble Mercury(Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium(Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron(B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt(Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese(Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium(Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc(Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Copper(Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum(Al)	28130	mg/kg	50	ND	ND	ND
Soluble Nickel(Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin(Sn)	180000	mg/kg	3	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND
Conclusion				Pass	Pass	Pass



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Test Item(s)	Limit	Unit(s)	MDL	A4	A5
Mass of trace amount	-	mg	-	/	/
Soluble Antimony(Sb)	560	mg/kg	10	ND	ND
Soluble Lead(Pb)	23	mg/kg	5	ND	ND
Soluble Arsenic(As)	47	mg/kg	10	ND	ND
Soluble Barium(Ba)	18750	mg/kg	50	ND	ND
Soluble Chromium(III)(CrIII)	460	mg/kg	5	7	ND
Soluble Chromium(VI)(Cr VI)	0.053	mg/kg	0.025	ND	ND
Soluble Cadmium(Cd)	17	mg/kg	5	ND	ND
Soluble Mercury(Hg)	94	mg/kg	10	ND	ND
Soluble Selenium(Se)	460	mg/kg	10	ND	ND
Soluble Boron(B)	15000	mg/kg	50	ND	ND
Soluble Cobalt(Co)	130	mg/kg	10	ND	ND
Soluble Manganese(Mn)	15000	mg/kg	50	88	ND
Soluble Strontium(Sr)	56000	mg/kg	50	ND	ND
Soluble Zinc(Zn)	46000	mg/kg	50	ND	ND
Soluble Copper(Cu)	7700	mg/kg	50	ND	ND
Soluble Aluminum(Al)	28130	mg/kg	50	2729	ND
Soluble Nickel(Ni)	930	mg/kg	10	ND	ND
Soluble Tin(Sn)	180000	mg/kg	3	6841	ND
Soluble Organic Tin*	12	mg/kg	-	-	ND
Methyl tin(MeT)	-	mg/kg	0.5	ND	-
Di-n-Propyltin(DProT)	-	mg/kg	0.5	ND	-
Dibutyl tin(DBT)	-	mg/kg	0.5	ND	-
Tributyl tin(TBT)	-	mg/kg	0.5	ND	-
n-Octyl tin(MOT)	-	mg/kg	0.5	ND	-
Tetrabutyl tin (TeBT)	-	mg/kg	0.5	ND	-
Diphenyl tin(DPhT)	-	mg/kg	0.5	ND	-
Di-n-octyl tin(DOT)	-	mg/kg	0.5	ND	-
Triphenyl tin(TPhT)	-	mg/kg	0.5	ND	-
Butyl tin(BuT)	-	mg/kg	0.5	0.6	-
Di-methyl tin(DMT)	-	mg/kg	0.5	ND	-
Sum of Soluble Organic Tin	12	mg/kg	-	0.6	-
Conclusion				Pass	Pass

Notes:

(1) According to Chapter of 10.1.2 of BS EN 71-3:2019+A1:2021, Chromium (III) is calculated by the following formula:

Soluble Chromium (III) = Soluble Total Chromium - Soluble Chromium (VI)

(2) *Confirmation test of soluble organic tin is not required in case of soluble tin, after conversion, does not exceed the soluble organic tin requirement as specified in BS EN 71-3:2019+A1:2021.



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BS EN71-3: 2019+ A2:2024 - Migration of certain elements (Category III:for scrapped-off toy material)

Test Method: With reference to BS EN 71-3:2019+ A2:2024, analysis was performed by ICP-OES, IC-UV or LC-ICP-MS.
Soluble Organic Tin was analyzed by GC-MS.

Test Item(s)	Limit	Unit(s)	MDL	A1	A2	A3
Mass of trace amount	-	mg	-	/	/	/
Soluble Lead(Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic(As)	47	mg/kg	10	ND	ND	ND
Soluble Barium(Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium(Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium(III)(CrIII)	460	mg/kg	5	ND	ND	ND
Soluble Chromium(VI)(Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Mercury(Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium(Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron(B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt(Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese(Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium(Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc(Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Copper(Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum(Al)	28130	mg/kg	50	ND	ND	ND
Soluble Nickel(Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin(Sn)	180000	mg/kg	3	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND
Conclusion				Pass	Pass	Pass



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Test Item(s)	Limit	Unit(s)	MDL	A4	A5
Mass of trace amount	-	mg	-	/	/
Soluble Lead(Pb)	23	mg/kg	5	ND	ND
Soluble Antimony(Sb)	560	mg/kg	10	ND	ND
Soluble Arsenic(As)	47	mg/kg	10	ND	ND
Soluble Barium(Ba)	18750	mg/kg	50	ND	ND
Soluble Cadmium(Cd)	17	mg/kg	5	ND	ND
Soluble Chromium(III)(CrIII)	460	mg/kg	5	7	ND
Soluble Chromium(VI)(Cr VI)	0.053	mg/kg	0.025	ND	ND
Soluble Mercury(Hg)	94	mg/kg	10	ND	ND
Soluble Selenium(Se)	460	mg/kg	10	ND	ND
Soluble Boron(B)	15000	mg/kg	50	ND	ND
Soluble Cobalt(Co)	130	mg/kg	10	ND	ND
Soluble Manganese(Mn)	15000	mg/kg	50	88	ND
Soluble Strontium(Sr)	56000	mg/kg	50	ND	ND
Soluble Zinc(Zn)	46000	mg/kg	50	ND	ND
Soluble Copper(Cu)	7700	mg/kg	50	ND	ND
Soluble Aluminum(Al)	28130	mg/kg	50	2729	ND
Soluble Nickel(Ni)	930	mg/kg	10	ND	ND
Soluble Tin(Sn)	180000	mg/kg	3	6841	ND
Soluble Organic Tin*	12	mg/kg	-	-	ND
Di-methyl tin(DMT)	-	mg/kg	0.5	ND	-
Methyl tin(MeT)	-	mg/kg	0.5	ND	-
Di-n-Propyltin(DProT)	-	mg/kg	0.5	ND	-
Dibutyl tin(DBT)	-	mg/kg	0.5	ND	-
Tributyl tin(TBT)	-	mg/kg	0.5	ND	-
n-Octyl tin(MOT)	-	mg/kg	0.5	ND	-
Tetrabutyl tin (TeBT)	-	mg/kg	0.5	ND	-
Diphenyl tin(DPhT)	-	mg/kg	0.5	ND	-
Di-n-octyl tin(DOT)	-	mg/kg	0.5	ND	-
Triphenyl tin(TPhT)	-	mg/kg	0.5	ND	-
Butyl tin(BuT)	-	mg/kg	0.5	0.6	-
Sum of Soluble Organic Tin	12	mg/kg	-	0.6	-
Conclusion				Pass	Pass

Notes:

(1) According to Chapter of 10.1.2 of BS EN 71-3:2019+ A2:2024, Chromium (III) is calculated by the following formula:

Soluble Chromium (III) = Soluble Total Chromium - Soluble Chromium (VI)

(2) *Confirmation test of soluble organic tin is not required in case of soluble tin, after conversion, does not exceed the soluble organic tin requirement as specified in BS EN 71-3:2019+ A2:2024.

(3) /=Not Applicable



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Test Report

No. T52510290363XM

Date: APR 25, 2025

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EN 71-3: 2019+ A2:2024 - Migration of certain elements (Category III:for scrapped-off toy material)

Test Method: With reference to EN 71-3:2019+ A2:2024, analysis was performed by ICP-OES, IC-UV or LC-ICP-MS.
Soluble Organic Tin was analyzed by GC-MS.

Test Item(s)	Limit	Unit(s)	MDL	A1	A2	A3
Mass of trace amount	-	mg	-	/	/	/
Soluble Lead(Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic(As)	47	mg/kg	10	ND	ND	ND
Soluble Barium(Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium(Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium(III)(CrIII)	460	mg/kg	5	ND	ND	ND
Soluble Chromium(VI)(Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Mercury(Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium(Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron(B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt(Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese(Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium(Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc(Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Copper(Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum(Al)	28130	mg/kg	50	ND	ND	ND
Soluble Nickel(Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin(Sn)	180000	mg/kg	3	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND
Conclusion				Pass	Pass	Pass



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Test Report

No. T52510290363XM

Date: APR 25, 2025

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Test Item(s)	Limit	Unit(s)	MDL	A4	A5
Mass of trace amount	-	mg	-	/	/
Soluble Lead(Pb)	23	mg/kg	5	ND	ND
Soluble Antimony(Sb)	560	mg/kg	10	ND	ND
Soluble Arsenic(As)	47	mg/kg	10	ND	ND
Soluble Barium(Ba)	18750	mg/kg	50	ND	ND
Soluble Cadmium(Cd)	17	mg/kg	5	ND	ND
Soluble Chromium(III)(CrIII)	460	mg/kg	5	7	ND
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Soluble Mercury(Hg)	94	mg/kg	10	ND	ND
Soluble Selenium(Se)	460	mg/kg	10	ND	ND
Soluble Boron(B)	15000	mg/kg	50	ND	ND
Soluble Cobalt(Co)	130	mg/kg	10	ND	ND
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Soluble Copper(Cu)	7700	mg/kg	50	ND	ND
Soluble Aluminum(Al)	28130	mg/kg	50	2729	ND
Soluble Nickel(Ni)	930	mg/kg	10	ND	ND
Soluble Tin(Sn)	180000	mg/kg	3	6841	ND
Soluble Organic Tin*	12	mg/kg	-	-	ND
Methyl tin(MeT)	-	mg/kg	0.5	ND	-
Di-n-Propyltin(DProT)	-	mg/kg	0.5	ND	-
Dibutyl tin(DBT)	-	mg/kg	0.5	ND	-
Tributyl tin(TBT)	-	mg/kg	0.5	ND	-
n-Octyl tin(MOT)	-	mg/kg	0.5	ND	-
Tetrabutyl tin (TeBT)	-	mg/kg	0.5	ND	-
Diphenyl tin(DPhT)	-	mg/kg	0.5	ND	-
Di-n-octyl tin(DOT)	-	mg/kg	0.5	ND	-
Triphenyl tin(TPhT)	-	mg/kg	0.5	ND	-
Butyl tin(BuT)	-	mg/kg	0.5	0.6	-
Di-methyl tin(DMT)	-	mg/kg	0.5	ND	-
Sum of Soluble Organic Tin	12	mg/kg	-	0.6	-
Conclusion				Pass	Pass

Notes:

(1) According to Chapter of 10.1.2 of EN 71-3:2019+ A2:2024, Chromium (III) is calculated by the following formula:

Soluble Chromium (III) = Soluble Total Chromium - Soluble Chromium (VI)

(2) *Confirmation test of soluble organic tin is not required in case of soluble tin, after conversion, does not exceed the soluble organic tin requirement as specified in EN 71-3:2019+ A2:2024.

(3) /=Not Applicable



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- 2 Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule ($w=0$) stated in ILAC-G8:09/2019.

Sample Picture (As received)

Pic.1



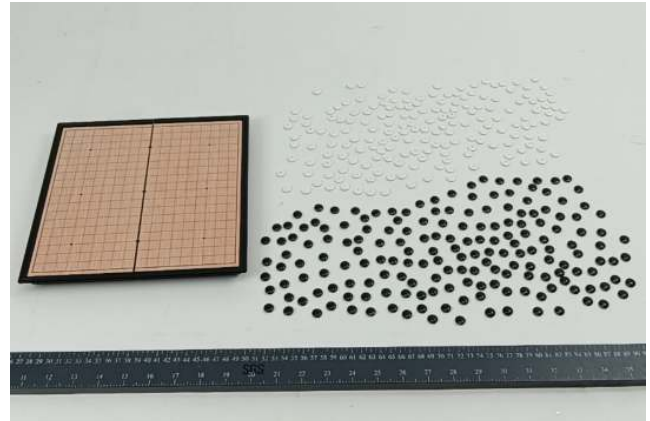
Pic.2



Pic.3



Pic.4



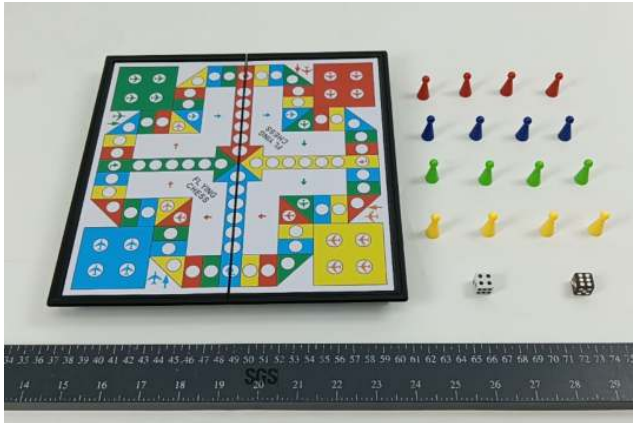
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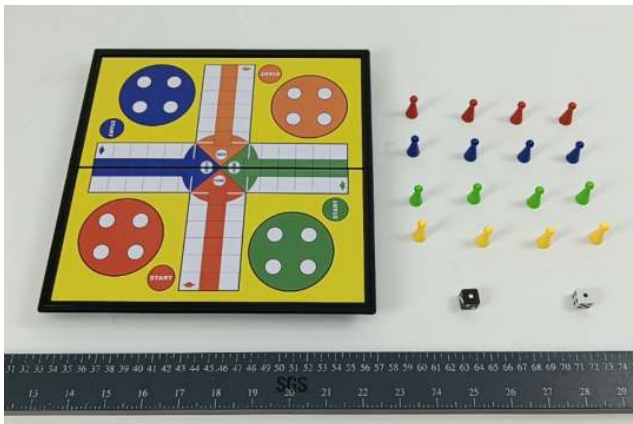
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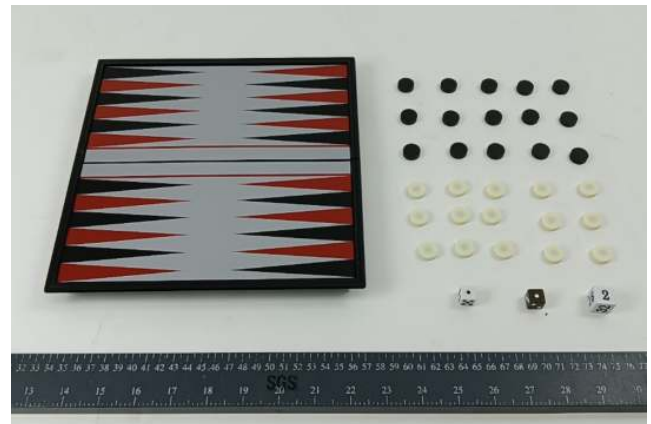
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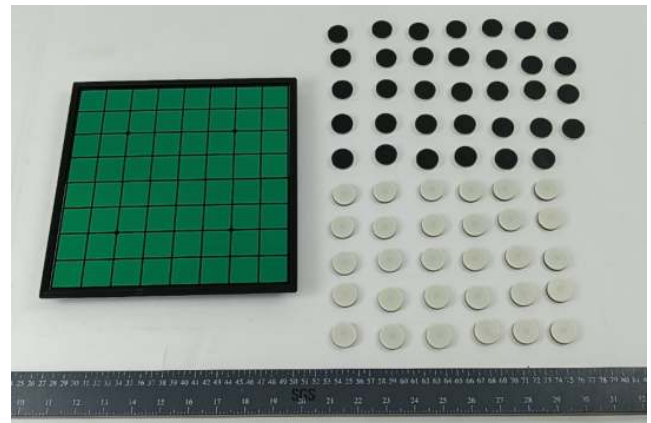
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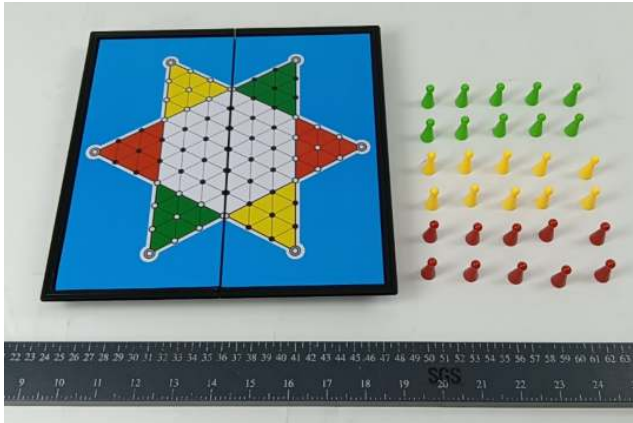
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Pic.10



Pic.11



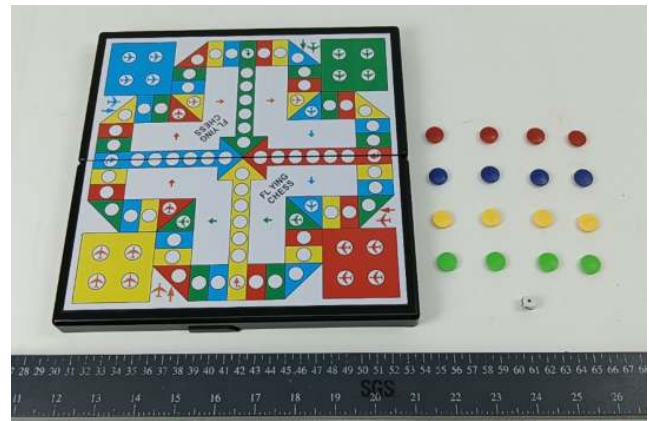
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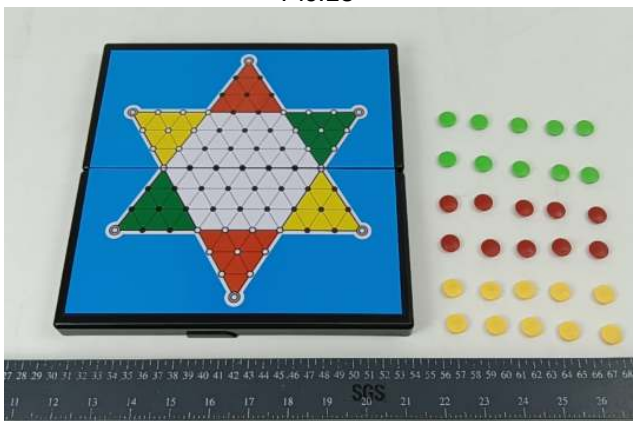
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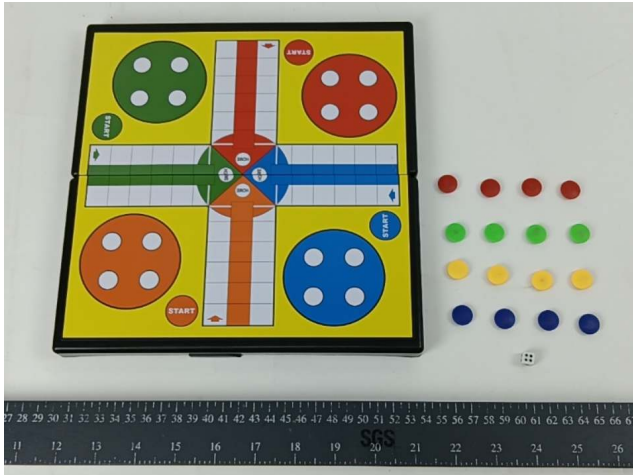
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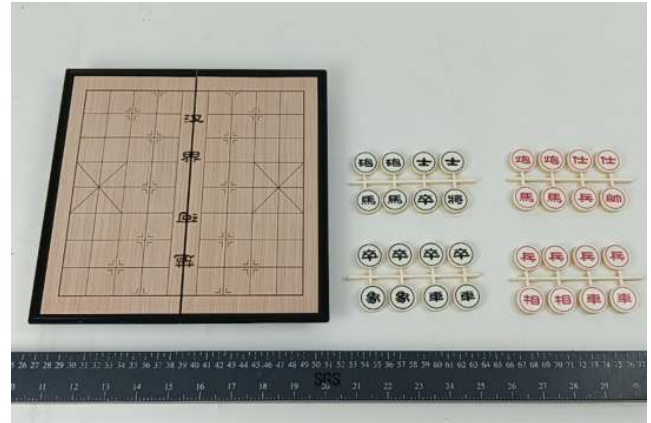
Pic.16



Pic.17



Pic.18



Pic.19



Pic.20



Pic.21



Pic.22



Pic.23



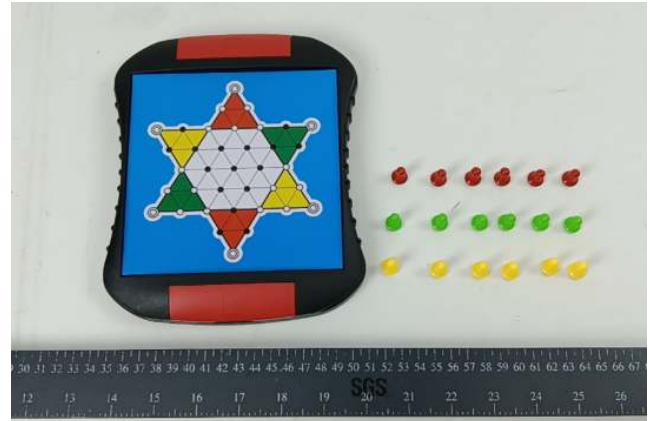
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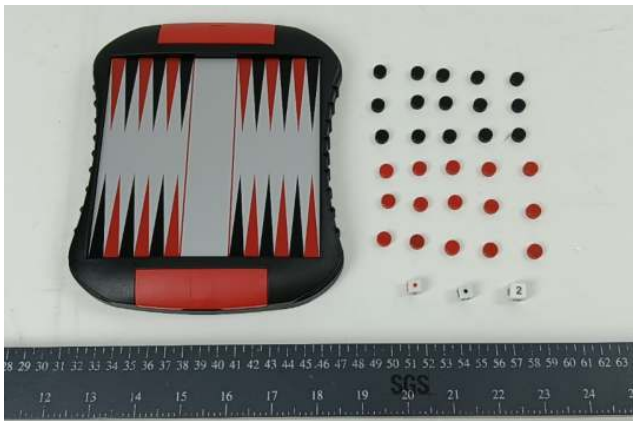
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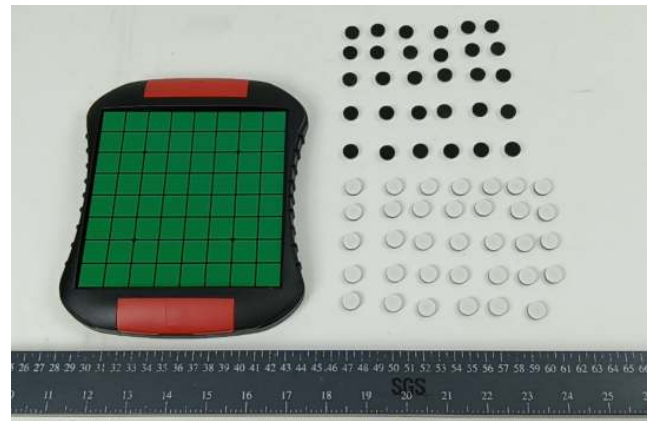
Pic.26



Pic.27



Pic.28



Pic.29



Pic.30



Pic.31



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