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HAPE INTERNATIONAL (NINGBO) LTD HAPPY ARTS&CRAFTS (NINGBO) CO., LTD 9-27NANHAI ROAD, DAGANG INDUSTRIAL CITY, BEILUN, NINGBO, CHINA

Sample Description	:	SUPER SPIRALS/ CONTROL-BLOCK SIDED SPIRAL TWIST	K MULTIPACK/ DOUBLE-
Sample Quantity	:	9 SETS	
Style / Item No.	:	E6024,E6025,E6026	
Country of Origin	:	CHINA	
Country of Destination	:	GLOBAL	
Labeled Age Grading	:	4-99Y	
Requested Age Grading	:	4-99Y	
Client Reference Information:	:	E6024A,E6025A,E6026A	
Age Group Assessed as Per Age Guideline	:	4+ YEARS	
Age Group Applied in Testing	:	4+ YEARS	
Sample Receiving Date	:	MAR. 18, 2020	
Further Information Date	:	APR. 03, 2020	
Testing Period	:	MAR. 18, 2020 TO APR. 07, 2020	
Test Requested			<u>Result</u>
ASTM F963-17 Standard Consumer Safety S	Spec	cification for Toy Safety	Pass
Tracking label per Consumer Product Safety 103 tracking labels for children's products.	Imp	provement Act (CPSIA) of 2008 section	Pass
Part 1303, Title 16, Code of Federal Regulati Safety Commission of U.S.A. requirement Le		, Chapter II – Consumer Products	Pass
Lead(Pb)			Pass
Lead(Pb)			Pass
CPSIA section 101(f) Lead in paint/similar s	urfa	ce coating material	Pass
CPSIA section 101(a)(2) Lead in accessible	sul	ostrate materials	Pass
CPSIA section 101(a)(2) Lead in accessible substrate materials			Pass

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

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Signed for and on behalf of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

Wallace Lui Senior Technical Manager, Asia



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Result:

ASTM F963-17 STANDARD CONSUMER SAFETY SPECIFICATION FOR TOY SAFETY

AS SPECIFIED IN ASTM F963-17 STANDARD CONSUMER SAFETY SPECIFICATION ON TOYS SAFETY

Clauses relevant to the item:

<u>Clause</u>	Description	<u>Result</u>
4	Safety Requirements	
4.1	Material Quality **	Pass
4.2	Flammability Test	Pass (See Detail of test result)
4.3	Toxicology	
4.3.5	Heavy Elements	
	4.3.5.1 Heavy Elements in Paint/Similar Surface Coating Materials	<u>Pass (See Detail of</u> test result)
	4.3.5.2 Heavy Metal in Substrate Materials	Pass (See Detail of test result)
4.5	Sound-Producing Toys	Pass
4.6	Small Objects	
4.6.3	Labelling Requirements	Pass
4.7	Accessible Edges	Pass
4.8	Projections	Pass
4.9	Accessible Points	Pass
4.11	Nails and Fasteners	Pass
4.13.2	Hinge-Line Clearance	<u>N/A</u>
	(Remark: No applicable because of the weight of part link with hinge is less than 0.5lb.)	
4.33	Marbles	Pass
5	Safety Labeling Requirements	
5.2	Age Grading Labeling	Pass
5.3	Safety Labeling Requirements	Pass
5.11	Small Objects, Small Balls, Marbles, and Balloons	Pass
5.16	Promotional Materials	<u>Pass</u>
7	Producer's Markings	
7.1	Producer's Markings	Pass
8.5	Normal Use Testing	Pass
8.7	Impact Test	Pass
8.8	Torque Test	Pass
8.9	Tension Test	Pass





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Burning Rate (inch/sec)

0.03

N/A = Not Applicable

** Visual Examination

Detail of test result:

ASTM F963-17, Clause 4.2 – Flammability Test Flammability Test on Solid

<u>Sample</u>

SUPER SPIRALS/ CONTROL-BLOCK MULTIPACK/ DOUBLE-SIDED SPIRAL TWIST

Requirement: A toy / component is considered a "flammable solid" if it ignites and burns with a self-sustaining flame at a rate greater than 0.10 in/sec along its major axis.

Flammability Test on Textile Materials

Burning Time (second)													
Samples			As red	ceived		-			After w	ashing			Results
White fabric	<u>1</u> DNI	<u>2</u> DNI	<u>3</u> DNI	<u>4</u> DNI	<u>5</u> DNI	<u>Ave.</u>	<u>1</u> DNI	<u>2</u> DNI	<u>3</u> DNI	<u>4</u> DNI	<u>5</u> DNI	<u>Ave.</u>	Pass
DNI = Did Not Ignite IBE = Ignite But Extinguished													
Plain Surface Fabrics													

Requirements: (1) All specimens either did not ignite, ignited but self extinguished, or any combination thereof.
(2) Average burn time is 3.5 s or greater.

N.B.: - Only applicable clauses were shown.



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TRACKING LABEL PER CONSUMER PRODUCT SAFETY IMPROVEMENT ACT (CPSIA) OF 2008 SECTION 103 TRACKING LABELS FOR CHILDREN'S PRODUCTS.

Note 1: As specified in Consumer Product Safety Improvement Act (CPSIA) of 2008 section 103 tracking labels for children's products.

- Tracking label found on the packaging: E6024: NBCN 11/2019 E6025: NBCN 12/18 E6026: NBCN 10/20

- Tracking label found on the surface of the product: E6024: NBCN 11/2019 E6025: NBCN 12/18 E6026: NBCN 10/20

Note 2: 1) The tracking label assessment was based on the submitted samples and the information provided by the applicant. There was no verification on the validity of such information.

2) City and State, or administrative state shall be also provided for the source (location)information.

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	SHA20-043766.001	Colorful coating with paper
SN2	SHA20-043766.002	Silvery metal staple
SN3	SHA20-043766.003	Orange ABS
SN4	SHA20-043766.004	Black silicone
SN5	SHA20-043766.005	Red ABS
SN6	SHA20-043766.006	Beige ABS
SN7	SHA20-043766.007	Transparent coating on wood
SN8	SHA20-043766.008	Plywood
SN9	SHA20-043766.009	Transparent glass bead
SN10	SHA20-043766.010	Red coating on wood
SN11	SHA20-043766.011	Yellow coating on wood
SN12	SHA20-043766.012	Lt. blue coating
SN13	SHA20-043766.013	Red/white fabric label
SN14	SHA20-043766.014	White fabric bag
SN15	SHA20-043766.015	White cord
SN16	SHA20-043766.016	Purple PA





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Specimen No.	SGS Sample ID	Description
SN17	SHA20-043766.017	Grey coating on wood
SN18	SHA20-043766.018	Orange coating on wood
SN19	SHA20-043766.019	Brown coating
SN20	SHA20-043766.020	Solid wood
SN21	SHA20-043766.021	Cream ABS(ring)
SN22	SHA20-043766.022	Cream PP(sheet)
SN23	SHA20-043766.023	Grass green coating (on wood)
SN24	SHA20-043766.024	Turquoise coating on wood
SN25	SHA20-043766.025	White ABS
SN26	SHA20-043766.026	Transparent ABS
SN27	SHA20-043766.027	Turquoise ABS
SN28	SHA20-043766.028	White coating on plastic(flag)

Remarks :

(1) 1 mg/kg = 0.0001%

(2) MDL = Method Detection Limit

(3) ND = Not Detected (< MDL)

(4) "-" = Not Regulated

<u>American Society for Testing and Materials – ASTM F 963-17– total Lead in paint and similar</u> <u>surface-coating materials</u>

Test Method : With reference to CPSC-CH-E1003-09.1, analysis was performed by AAS.

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>	<u>007</u>	<u>010</u>
Total Lead (Pb)	90	mg/kg	20	ND	ND	ND
<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>011</u>	<u>012</u>	<u>017</u>
Total Lead (Pb)	90	mg/kg	20	ND	ND	ND
<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>018</u>	<u>019</u>	<u>023</u>
Total Lead (Pb)	90	mg/kg	20	ND	ND	ND
<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>024</u>	<u>028</u>	
Total Lead (Pb)	90	mg/kg	20	ND	ND	





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Part 1303, Title 16, Code of Federal Regulations, Chapter II – Consumer Products Safety Commission of U.S.A. requirement-Lead

Test Method : With reference to CPSC Test Method: CPSC-CH-E1003-09.1, analysis was performed by AAS.

<u>Test Item(s)</u> Lead (Pb) Conclusion	<u>Limit</u> 0.009	<u>Unit</u> %	<u>MDL</u> 0.002	<u>001</u> ND PASS	<u>007</u> ND PASS	<u>010</u> ND PASS
Test Item(s) Lead (Pb) Conclusion	<u>Limit</u> 0.009	<u>Unit</u> %	<u>MDL</u> 0.002	<u>011</u> ND PASS	<u>012</u> ND PASS	<u>017</u> ND PASS
Test Item(s) Lead (Pb) Conclusion	<u>Limit</u> 0.009	<u>Unit</u> %	<u>MDL</u> 0.002	<u>018</u> ND PASS	<u>019</u> ND PASS	<u>023</u> ND PASS
<u>Test Item(s)</u> Lead (Pb) Conclusion	<u>Limit</u> 0.009	<u>Unit</u> %	<u>MDL</u> 0.002	<u>024</u> ND PASS	<u>028</u> ND PASS	

American Society for Testing and Materials - ASTM F 963-17 - total Lead in Substrate Materials

Test Method : With reference to CPSC-CH-E1001-08.3, Analysis was performed by AAS.

Test Item(s)	<u>Limit</u>	<u>Unit</u>	MDL	<u>002</u>
Total Lead (Pb)	100	mg/kg	20	ND



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Lead(Pb)				
Test Method : With re	eference to US EPA Method 305	i0B:1996, analysis wa	s performed by	ICP-OES.
Test Item(s)	Lim	<u>it Unit MDL</u>	<u>002</u>	
Lead (Pb)	40) mg/kg 2	ND	
Conclusion			PASS	
Notes : (1) The maxin	mum permissible limit is quoted	from the client require	ment.	

American Society for Testing and Materials - ASTM F 963-17 - total Lead in Substrate Materials

Test Method : With reference to CPSC-CH-E1002-08.3. Analysis was performed by AAS.

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>003</u>	<u>004</u>	<u>005</u>
Total Lead (Pb)	100	mg/kg	20	ND	ND	ND
<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>006</u>	<u>009</u>	<u>016</u>
Total Lead (Pb)	100	mg/kg	20	ND	ND	ND
<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>021</u>	<u>022</u>	<u>025</u>
Total Lead (Pb)	100	mg/kg	20	ND	ND	ND
<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>026</u>	<u>027</u>	
Total Lead (Pb)	100	mg/kg	20	ND	ND	

Lead(Pb)

Test Method : With reference to US EPA 3052:1996, analysis was performed by ICP-OES.

Test Item(s)	<u>Limit</u>	<u>Unit</u>	MDL	<u>003</u>	<u>004</u>	<u>005</u>
Lead (Pb)	40	mg/kg	2	ND	ND	ND
Conclusion				PASS	PASS	PASS





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Test Item(s)	<u>Limit</u>	<u>Unit</u>	MDL	<u>006</u>	<u>009</u>	<u>016</u>		
Lead (Pb)	40	mg/kg	2	ND	ND	ND		
Conclusion				PASS	PASS	PASS		
<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	MDL	<u>021</u>	<u>022</u>	<u>025</u>		
Lead (Pb)	40	mg/kg	2	ND	ND	ND		
Conclusion				PASS	PASS	PASS		
T (1)					007			
<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	MDL	<u>026</u>	<u>027</u>			
Lead (Pb)	40	mg/kg	2	ND	ND			
Conclusion				PASS	PASS			

Notes :

(1) The maximum permissible limit is quoted from the client requirement.

<u>American Society for Testing and Materials – ASTM F 963-17 – soluble Heavy Metal for paint and similar</u> <u>surface-coating materials/ Substrate Materials</u>

Test Method : With reference to ASTM F 963-17 (Clause 8.3), analysis was performed by ICP-OES.

Test Item(s)	<u>Limit</u>	<u>Unit</u>	MDL	<u>001</u>	<u>003</u>	<u>004</u>
Soluble Lead (Pb)	90	mg/kg	5	ND	ND	ND
Soluble Antimony (Sb)	60	mg/kg	5	ND	ND	ND
Soluble Arsenic (As)	25	mg/kg	2.5	ND	ND	ND
Soluble Barium (Ba)	1000	mg/kg	10	ND	ND	ND
Soluble Cadmium (Cd)	75	mg/kg	5	ND	ND	ND
Soluble Chromium (Cr)	60	mg/kg	5	ND	ND	ND
Soluble Mercury (Hg)	60	mg/kg	5	ND	ND	ND
Soluble Selenium (Se)	500	mg/kg	10	ND	ND	ND
Soluble Chromium (Cr) Soluble Mercury (Hg)	60 60	mg/kg mg/kg	5 5	ND ND	ND ND	ND ND



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Test Item(s)	<u>Limit</u>	<u>Unit</u>	MDL	<u>005</u>	<u>006</u>	<u>007</u>
Soluble Lead (Pb)	90	mg/kg	5	ND	ND	ND
Soluble Antimony (Sb)	60	mg/kg	5	ND	ND	ND
Soluble Arsenic (As)	25	mg/kg	2.5	ND	ND	ND
Soluble Barium (Ba)	1000	mg/kg	10	ND	ND	ND
Soluble Cadmium (Cd)	75	mg/kg	5	ND	ND	ND
Soluble Chromium (Cr)	60	mg/kg	5	ND	ND	ND
Soluble Mercury (Hg)	60	mg/kg	5	ND	ND	ND
Soluble Selenium (Se)	500	mg/kg	10	ND	ND	ND
<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	MDL	<u>008</u>	<u>009</u>	<u>010</u>
Soluble Lead (Pb)	90	mg/kg	5	ND	ND	ND
Soluble Antimony (Sb)	60	mg/kg	5	ND	ND	ND
Soluble Arsenic (As)	25	mg/kg	2.5	ND	ND	ND
Soluble Barium (Ba)	1000	mg/kg	10	ND	ND	ND
Soluble Cadmium (Cd)	75	mg/kg	5	ND	ND	ND
Soluble Chromium (Cr)	60	mg/kg	5	ND	ND	ND
Soluble Mercury (Hg)	60	mg/kg	5	ND	ND	ND
Soluble Selenium (Se)	500	mg/kg	10	ND	ND	ND
Test Item(a)	Limit	Linit		011	012	012
Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>011</u>	<u>012</u>	<u>013</u>
Soluble Lead (Pb)	90	mg/kg	5	ND	ND	ND
Soluble Antimony (Sb)	60	mg/kg	5	ND	ND	ND
Soluble Arsenic (As)	25	mg/kg	2.5	ND	ND	ND
Soluble Barium (Ba)	1000	mg/kg	10	ND	ND	ND
Soluble Cadmium (Cd)	75	mg/kg	5	ND	ND	ND
Soluble Chromium (Cr)	60	mg/kg	5	ND	ND	ND
Soluble Mercury (Hg)	60	mg/kg	5	ND	ND	ND
Soluble Selenium (Se)	500	mg/kg	10	ND	ND	ND



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Test Item(s)	<u>Limit</u>	<u>Unit</u>	MDL	<u>014</u>	<u>015</u>	<u>016</u>
Soluble Lead (Pb)	90	mg/kg	5	ND	ND	ND
Soluble Antimony (Sb)	60	mg/kg	5	ND	ND	ND
Soluble Arsenic (As)	25	mg/kg	2.5	ND	ND	ND
Soluble Barium (Ba)	1000	mg/kg	10	ND	ND	ND
Soluble Cadmium (Cd)	75	mg/kg	5	ND	ND	ND
Soluble Chromium (Cr)	60	mg/kg	5	ND	ND	ND
Soluble Mercury (Hg)	60	mg/kg	5	ND	ND	ND
Soluble Selenium (Se)	500	mg/kg	10	ND	ND	ND
<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	MDL	<u>017</u>	<u>018</u>	<u>019</u>
Soluble Lead (Pb)	90	mg/kg	5	ND	-	-
Soluble Antimony (Sb)	60	mg/kg	5	ND	-	-
Soluble Arsenic (As)	25	mg/kg	2.5	ND	-	-
Soluble Barium (Ba)	1000	mg/kg	10	ND	-	-
Soluble Cadmium (Cd)	75	mg/kg	5	ND	-	-
Soluble Chromium (Cr)	60	mg/kg	5	ND	-	-
Soluble Mercury (Hg)	60	mg/kg	5	ND	-	-
Soluble Selenium (Se)	500	mg/kg	10	ND	-	-
Test Item(s)	<u>Limit</u>	<u>Unit</u>	MDL	<u>020</u>	<u>021</u>	<u>022</u>
Soluble Lead (Pb)	<u>90</u>	mg/kg	5	<u>020</u> ND	<u>02 7</u> ND	<u>022</u> ND
Soluble Antimony (Sb)	50 60	mg/kg	5	ND	ND	ND
Soluble Arsenic (As)	25	mg/kg	2.5	ND	ND	ND
Soluble Barium (Ba)	1000	mg/kg	10	ND	ND	ND
Soluble Cadmium (Cd)	75	mg/kg	5	ND	ND	ND
Soluble Chromium (Cr)	60	mg/kg	5	ND	ND	ND
Soluble Mercury (Hg)	60 60	mg/kg	5 5	ND	ND	ND
Soluble Selenium (Se)	500		5 10	ND	ND	ND
	500	mg/kg	10	ND	ND	ND



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<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	MDL	<u>023</u>	<u>024</u>	<u>025</u>
Soluble Lead (Pb)	90	mg/kg	5	ND	ND	ND
Soluble Antimony (Sb)	60	mg/kg	5	ND	ND	ND
Soluble Arsenic (As)	25	mg/kg	2.5	ND	ND	ND
Soluble Barium (Ba)	1000	mg/kg	10	ND	ND	ND
Soluble Cadmium (Cd)	75	mg/kg	5	ND	ND	ND
Soluble Chromium (Cr)	60	mg/kg	5	ND	ND	ND
Soluble Mercury (Hg)	60	mg/kg	5	ND	ND	ND
Soluble Selenium (Se)	500	mg/kg	10	ND	ND	ND
Test Item(s)	<u>Limit</u>	<u>Unit</u>	MDL	<u>026</u>	<u>027</u>	<u>028</u>
Soluble Lead (Pb)	90	mg/kg	5	ND	ND	ND
Soluble Antimony (Sb)	60	mg/kg	5	ND	ND	ND
Soluble Arsenic (As)	25	mg/kg	2.5	ND	ND	ND
Soluble Barium (Ba)	1000	mg/kg	10	ND	ND	ND
Soluble Cadmium (Cd)	75	mg/kg	5	ND	ND	ND
Soluble Chromium (Cr)	60	mg/kg	5	ND	ND	ND
Soluble Mercury (Hg)	60	mg/kg	5	ND	ND	ND
Soluble Selenium (Se)	500	mg/kg	10	ND	ND	ND

Notes :

(1) Results shown are of the adjusted analytical results

(2) Mass of trace amount of sample 010 is 38.7 mg, sample 011 is 47.5 mg, sample 012 is 22.5 mg, sample 017 is 55.4 mg, sample 022 is 32.4 mg, sample 023 is 16.4 mg, sample 024 is 50.4 mg, sample 028 is 21.1 mg.

(3) As received, the test portion of samples 018-019 from one whole sample are less than 10mg, therefore such components were not tested for certain migration elements, as specified in ASTM F963-17 Clause 8.3.3.6 (2) – Selection of Test Portions



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CPSIA section 101(f) - Lead in paint/similar surface coating material

Test Method : CPSC Test Method: CPSC-CH-E1003-09.1 'Standard Operating Procedure for Determining Lead (Pb) in Paint and Other Similar Surface Coatings'

<u>Test Item(s)</u> Lead (Pb) Conclusion	<u>Limit</u> 0.009	<u>Unit</u> %	<u>MDL</u> 0.002	<u>001</u> ND PASS	<u>007</u> ND PASS	<u>010</u> ND PASS
<u>Test Item(s)</u> Lead (Pb) Conclusion	<u>Limit</u> 0.009	<u>Unit</u> %	<u>MDL</u> 0.002	<u>011</u> ND PASS	<u>012</u> ND PASS	<u>017</u> ND PASS
<u>Test Item(s)</u> Lead (Pb) Conclusion	<u>Limit</u> 0.009	<u>Unit</u> %	<u>MDL</u> 0.002	<u>018</u> ND PASS	<u>019</u> ND PASS	<u>023</u> ND PASS
<u>Test Item(s)</u> Lead (Pb) Conclusion	<u>Limit</u> 0.009	<u>Unit</u> %	<u>MDL</u> 0.002	<u>024</u> ND PASS	<u>028</u> ND PASS	

CPSIA section 101(a)(2) - Lead in accessible substrate materials

Test Method : CPSC Test Method: CPSC-CH-E1002-08.3 'Standard Operation Procedure for Determining Total Lead (Pb) in Non-Metal Children Product'

<u>Test Item(s)</u> Lead (Pb) Conclusion	<u>Limit</u> 0.01	<u>Unit</u> %	<u>MDL</u> 0.002	<u>003</u> ND PASS	<u>004</u> ND PASS	<u>005</u> ND PASS
<u>Test Item(s)</u> Lead (Pb) Conclusion	<u>Limit</u> 0.01	<u>Unit</u> %	<u>MDL</u> 0.002	<u>006</u> ND PASS	<u>009</u> ND PASS	<u>016</u> ND PASS
<u>Test Item(s)</u> Lead (Pb) Conclusion	<u>Limit</u> 0.01	<u>Unit</u> %	<u>MDL</u> 0.002	<u>021</u> ND PASS	<u>022</u> ND PASS	<u>025</u> ND PASS



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Test Item(s)	Li	<u>mit</u>	<u>Unit</u>	<u>MDL</u>	<u>026</u>	<u>027</u>		
Lead (Pb)	0.0	01	%	0.002	ND	ND		
Conclusion					PASS	PASS		

Notes :

Limit applies to a children's product manufactured after 14 August 2011 (Public Law 112-28 (HR 2715, 112th Congress) amending CPSIA)

CPSIA section 101(a)(2) - Lead in accessible substrate materials

Test Method : CPSC Test Method: CPSC-CH-E1001-08.3 `Standard Operating Procedure for Determining Total Lead (Pb) in Children `s Metal Products (Including Children `s Metal Jewelry)`.

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	MDL	<u>002</u>
Lead (Pb)	0.01	%	0.002	ND
Conclusion				PASS

Notes :

Limit applies to a children's product manufactured after 14 August 2011 (Public Law 112-28 (HR 2715, 112th Congress) amending CPSIA)

Remark:

The test results 001-028 are taken from report SHA20-041552.001-024,026-029.

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