



中国认可  
国际互认  
检测  
TESTING  
CNAS L2929

## Test Report

No.: T52110322666TY

Date: DEC 21, 2021

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HAPPY ARTS&CRAFTS(NINGBO)CO.,LTD  
HAPE INTERNATIONAL (NINGBO) LTD  
9-27 NANHAI ROAD, DAGANG INDUSTRIAL CITY,  
BEILUN, NINGBO, CHINA PC:315800

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

E1635 HUMAN BODY PUZZLE

Item No. : E1635  
Country of Origin : CHINA  
Country of Destination : GLOBAL  
Client Reference Information : E1635A  
Labeled Age Grading : 4Y+  
Requested Age Grading : 4Y+

\*\*\*\*\*

Age Group Assessed by SGS As Per Age : OVER 4 YEARS  
Guideline  
Age Group Applied in Testing : OVER 4 YEARS  
Sample Receiving Date : NOV 30, 2021  
Last Submission Sample Date : DEC 14, 2021  
Testing Period : NOV 30, 2021 TO DEC 21, 2021



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Test Requested		Conclusion
1.	For compliance with the test requirement of ASTM F963-17 Standard Consumer Safety Specification on Toy Safety.	--
	ASTM F963-17 Standard Consumer Safety Specification for Toy Safety	PASS
2.	For compliance with test requirement of the Physical & Mechanical, Flammability test requirement of Title 16, Code of Federal Regulations, Chapter II – Consumer Products Safety Commission of U.S.A	--
	Physical and mechanical tests consisting US CPSC 16 CFR 1500.48, US CPSC 16 CFR 1500.49 and US CPSC 16 CFR 1501: <ul style="list-style-type: none"> <li>- US CPSC 16 CFR 1500.48 – Technical requirements for determining a sharp point in toys and other articles intended for use by children under 8 years of ages</li> <li>- US CPSC 16 CFR 1500.49 – Technical requirements for determining a sharp metal or glass edge in toys and other articles intended for use by children under 8 years of age</li> <li>- US CPSC 16 CFR 1501 – Method for identifying toys and other articles intended for use by children under 3 years of age which present choking, aspiration, or ingestion hazards because of small parts</li> </ul>	PASS
	US CPSC 16 CFR 1500.19 – Misbranded toys and other articles intended for use by children #Not misbranded toys or articles intended for use by children	PASS#
	US CPSC 16 CFR 1500.44 – Method for determining extremely flammable and flammable solids	PASS
3.	Title 16, Code of Federal Regulations, Chapter II - Consumer Products Safety Commission of U.S.A. - Part 1303 - Ban of Lead - Containing Paint and Certain Consumer Products Bearing Lead - Containing Paint – Lead Content	PASS
4.	Tracking label per Consumer Product Safety Improvement Act (CPSIA) of 2008 section 103 tracking labels for children's products.	PASS*



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5.	CPSIA section 101 - Total Lead content	--
	CPSIA section 101(f) (1) – Lead in paint/similar surface coating material	PASS
	Client's Requirement – Lead in paint/similar surface coating material	PASS
	CPSIA section 101(a) (2) – Lead in accessible substrate materials (Including Children's Metal Jewelry)	PASS
	Client's Requirement – Lead in accessible substrate materials (Including Children's Metal Jewelry)	PASS

Remark: Test item(s) with “\*” is(are) not accredited by CNAS.

\*\*\*\*\* 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



Liu Junjie, Tony  
Section Manager  
CNAS Approved Signatories

Qu Ping, Kiky  
Dept. Manager  
CNAS Approved Signatories



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## Results:

### 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:

Clause	Description	Result
4	Safety Requirements	
4.1	Material Quality **	Pass
4.2	Flammability Test	Pass
		(See Result Page)
4.3	Toxicology	
4.3.2	Manufacturing and Packaging of Food	N/A
4.3.3	Indirect Food Additives	N/A
4.3.4	Cosmetics	N/A
4.3.5	Heavy Elements	
4.3.5.1	Heavy Elements in Paint/Similar Surface Coating Materials	Pass
		(See Result Page)
4.3.5.2	Heavy Metal in Substrate Materials	Pass
		(See Result Page)
4.3.6	Cosmetic, Liquids, Pastes, Putties, Gels, Powders and Item of Avian Feather Origin	N/A
4.3.7	Stuffing Materials	N/A
4.3.8	DEHP (DOP)	N/A
4.4	Electrical/Thermal Energy	N/A
4.5	Sound-Producing Toys	N/A
4.6.1	Small Objects	N/A
4.6.2	Mouth-Actuated Toys	N/A
4.6.3	Labelling Requirements	Pass*
	*Retest samples were submitted on Dec 14, 2021.	
4.7	Accessible Edges	Pass
4.8	Projections	N/A
4.9	Accessible Points	Pass
4.10	Wires or Rods	N/A
4.11	Nails and Fasteners	N/A
4.12	Plastic Film	Pass



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Clause	Description	Result
4.13.1	Folding Mechanisms	N/A
4.13.2	Hinge-Line Clearance	N/A
4.14	Cords, Straps and Elastic	N/A
4.15	Stability and Over-Load Requirements	N/A
4.16	Confined Spaces	N/A
4.17	Wheels, Tires, and Axles	N/A
4.18	Holes, Clearance & Accessibility of Mechanisms	N/A
4.19	Simulated Protective Devices	N/A
4.20	Pacifiers	N/A
4.21	Projectile Toys	N/A
4.22	Teethers and Teething Toys	N/A
4.23	Rattles	N/A
4.24	Squeeze Toys	N/A
4.25	Battery-Operated Toys (Rechargeable battery/Non-rechargeable battery)	N/A
4.26	Toys Intended to be Attached to a Crib or Playpen	N/A
4.27	Stuffed and Beanbag-Type Toys	N/A
4.28	Stroller and Carriage Toys	N/A
4.29	Art Materials	N/A
4.30	Toy Gun Marking	N/A
4.31	Balloons	N/A
4.32	Certain Toys and Nearly Spherical Ends	N/A
4.33	Marbles	N/A
4.34	Balls	N/A
4.35	Pompoms	N/A
4.36	Hemispheric-Shaped Objects	N/A
4.37	Yo Yo Elastic Tether Toys	N/A
4.38	Magnets	N/A
4.39	Jaw Entrapment in Handles and Steering Wheels	N/A
4.40	Expanding Materials	N/A
4.41	Toy Chest	N/A
5	Safety Labeling Requirements	
5.2	Age Grading Labeling	Pass
5.3	Safety Labeling Requirements	Pass*
*Retest samples were submitted on Dec 14, 2021.		
5.4	Aquatic Toys	N/A
5.5	Crib & Playpen Toys	N/A



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Clause	Description	Result
5.6	Mobile	N/A
5.7	Stroller and Carriage Toys	N/A
5.8	Toys Intended to be Assembled by an Adult	N/A
5.9	Simulated Protective Devices	N/A
5.10	Toys with Functional Sharp Edges and Sharp Points	N/A
5.11	Small Objects, Small Balls, Marbles, and Balloons	Pass*
	*Retest samples were submitted on Dec 14, 2021.	
5.12	Toy Caps	N/A
5.13	Art Materials	N/A
5.14	Electric Toys	N/A
5.15	Battery-Operated Toys	N/A
5.16	Promotional Materials	Pass
5.17	Magnets	N/A
6	Instructional Literature	
6.2	Crib & Playpen Toys	N/A
6.3	Mobiles	N/A
6.4	Toys Intended to be Assembled by an Adult	N/A
6.5	Battery-Operated Toys	N/A
6.6	Battery Powered Ride-on Toys	N/A
6.7	Toys in Contact with Food	N/A
6.8	Toy Chests	N/A
7	Producer's Markings	
7.1	Producer's Markings	Pass
7.2	Battery-Powered Ride-on Toys	N/A
7.3	Toy Chests	N/A
8.5	Normal Use Testing	Pass
8.7	Impact Test	Pass
8.8	Torque Test	Pass
8.9	Tension Test	Pass
8.10	Compression Test	N/A
8.12	Flexure Test	N/A
8.16	Tension Test for Pompoms	N/A

N/A = Not Applicable

\*\* Visual Examination



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### Result Page:

#### Flammability Test (Clause 4.2)

#### Flammability Test on Solid

#### Sample

E1635 HUMAN BODY PUZZLE

#### Burning Rate (inch/sec)

DNI

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.

DNI = Did Not Ignite

### ASTM F963-17, Clause 4.3.5.1 – Heavy Elements in Paint/Similar Surface Coating Materials

Method: With reference to CPSC-CH-E1003-09.1

Method: With reference to ASTM F963-17 Clause 8.3

Analysis was performed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES)

#### Total Lead Content

Test Item(s)	Lead (Pb)		
MDL (ppm)	10		
Total Limit (ppm)	90		
Specimen Description	Alias No.	Tracing No.	Result(s) (ppm)
1. Multi-color coating on wood (Body) + Red coating on wood (Body) + Orange coating on wood (Body)	3	1	ND
2. Light red coating on wood (Body) + Yellow coating on wood (Body) + Purple-red coating on wood (Body)	3	2	ND
3. Light blue coating on wood (Body) + Purple coating on wood (Body) + Multi-color coating on paper (Instruction, puzzle, box)	3	3	ND
4. Black coating	3	4	ND
5. White coating on wood (Body)	3	5	ND



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## Soluble Heavy Metal Content

Test Item(s)				Pb	Sb	As	Ba	Cd	Cr	Hg	Se
MDL (ppm)				5	5	2.5	10	5	5	5	10
Migration Limit (ppm)				90	60	25	1000	75	60	60	500
Specimen No.	Alias No.	Tracing No.	Mass of trace amount (mg)	Adjusted Migration Result(s) (ppm)							
1	1	1	55.0	ND	ND	ND	ND	ND	ND	ND	ND
2	1	2	89.3	ND	ND	ND	ND	ND	ND	ND	ND
3	1	3	/	ND	ND	ND	ND	ND	ND	ND	ND
4	1	4	/	ND	ND	ND	ND	ND	ND	ND	ND
5	1	5	/	ND	ND	ND	ND	ND	ND	ND	ND
6	1	6	/	ND	ND	ND	ND	ND	ND	ND	ND
7	1	7	/	ND	ND	ND	ND	ND	ND	ND	ND
8	1	8	39.0	ND	ND	ND	ND	ND	ND	ND	ND
9	1	9	/	ND	ND	ND	ND	ND	ND	ND	ND
10	1	12	11.6	ND	ND	ND	ND	ND	ND	ND	ND
11	1	13	/	ND	ND	ND	ND	ND	ND	ND	ND

## Specimen Description:

- Multi-color coating on wood (Body)
- Red coating on wood (Body)
- Orange coating on wood (Body)
- Light red coating on wood (Body)
- Yellow coating on wood (Body)
- Purple-red coating on wood (Body)
- Light blue coating on wood (Body)
- Purple coating on wood (Body)
- Multi-color coating on paper (Instruction, puzzle, box)
- White coating on wood (Body)
- Black coating



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- Note:
- ppm = parts per million
  - 1% = 10000 mg/kg = 10000 ppm = 10000 µg/g
  - MDL = Method Detection Limit
  - ND = Not Detected (lower than MDL)
  - Migration results of eight elements shown are of the adjusted analytical results
  - For Soluble Heavy Metal Content & Total Lead Content in composite: The decision rule has prescribed in the regulation or standard, conformity reporting will base on the standard.
  - The result(s) is (are) calculated using the minimum specimen weight for composite test.
  - Total Lead Content:  
Result(s) of specimen No.4 is(are) extracted from report No. T52110271669TY
  - For Soluble Heavy Metal Content:  
Result(s) of specimen No.10 is(are) extracted from report No. T52110311129TY  
Result(s) of specimen No.11 is(are) extracted from report No. T52110280191TY



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## ASTM F963-17, Clause 4.3.5.2 – Heavy Elements in Substrate Materials

Method (non-metallic materials): With reference to CPSC-CH-E1002-08.3

Method (metal materials): With reference to CPSC-CH-E1001-08.3

Method: With reference to ASTM F963-17 Clause 8.3

Analysis was performed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES)

### Total Lead Content

Test Item(s)			Lead (Pb)
MDL (ppm)			10
Total Limit (ppm)			100
Specimen Description	Alias No.	Tracing No.	Result(s) (ppm)
1. Brown hardboard (Body) + Dark brown hardboard (Body)	2	1	22
2. Transparent plastic film (Box) + Blue plastic (Handle)	2	2	ND
3. Silvery metal ring	4	1	ND
4. Silvery metal holder	4	2	ND
5. Silvery metal big nail cap	4	3	ND
6. Silvery metal small nail cap	4	4	ND
7. Silvery metal lock holder on cover	4	5	ND
8. Silvery metal lock holder on box	4	6	ND
9. Silvery metal hasp	4	7	ND
10. Silvery metal hasp holder	4	8	ND

### Soluble Heavy Metal Content

Test Item(s)				Pb	Sb	As	Ba	Cd	Cr	Hg	Se
MDL (ppm)				5	5	2.5	10	5	5	5	10
Migration Limit (ppm) -- Other Than Modeling Clays				90	60	25	1000	75	60	60	500
Migration Limit (ppm) -- Modeling Clays				90	60	25	250	50	25	25	500
Specimen No.	Alias No.	Tracing No.	Mass of trace amount (mg)	Adjusted Migration Result(s) (ppm)							
1	1	10	/	ND	ND	ND	ND	ND	ND	ND	ND
2	1	11	/	ND	ND	ND	ND	ND	ND	ND	ND
3	1	14	/	ND	ND	ND	ND	ND	ND	ND	ND
4	1	15	/	ND	ND	ND	ND	ND	ND	ND	ND



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### Specimen Description:

1. Brown hardboard (Body)
2. Dark brown hardboard (Body)
3. Transparent plastic film (Box)
4. Blue plastic (Handle)

- Note:
- ppm = parts per million
  - 1% = 10000 mg/kg = 10000 ppm = 10000 µg/g
  - ND = Not Detected (lower than MDL)
  - MDL = Method Detection Limit
  - Migration results of eight elements shown are of the adjusted analytical results
  - For Soluble Heavy Metal Content & Total Lead Content in composite: The decision rule has prescribed in the regulation or standard, conformity reporting will base on the standard.
  - The result(s) is (are) calculated using the minimum specimen weight for composite test.
  - For Soluble Heavy Metal Content:  
Result(s) of specimen No.1 is(are) extracted from report No. T52110280191TY  
Result(s) of specimen No.2 is(are) extracted from report No. T52010321603TY



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## US CPSC

### PHYSICAL AND MECHANICAL TESTS CONSISTING US CPSC 16 CFR 1500.48, US CPSC 16 CFR 1500.49 AND US CPSC 16 CFR 1501

AS SPECIFIED IN PHYSICAL AND MECHANICAL TESTS CONSISTING US CPSC 16 CFR 1500.48, US CPSC 16 CFR 1500.49 AND US CPSC 16 CFR 1501

	No. of sample tested	Sharp point (16 CFR 1500.48)	Sharp edge (16 CFR 1500.49)	Small part (16 CFR 1501)
As received	1	Pass	N/A	N/A
Impact test (16 CFR 1500.53b)	1	Pass	N/A	N/A
Bite test (16 CFR 1500.52c)	0	N/A	N/A	N/A
Flexure test (16 CFR 1500.53d)	0	N/A	N/A	N/A
Torque test (16 CFR 1500.53e)	1	Pass	N/A	N/A
Tension test (16 CFR 1500.53f)	1	Pass	N/A	N/A
Compression test (16 CFR 1500.53g)	0	N/A	N/A	N/A

N/A = Not Applicable

### US CPSC 16 CFR 1500.19 – MISBRANDED TOYS AND OTHER ARTICLES INTENDED FOR USE BY CHILDREN\*

AS SPECIFIED IN US CPSC 16 CFR 1500.19 – MISBRANDED TOYS AND OTHER ARTICLES INTENDED FOR USE BY CHILDREN

Appropriate warning according to 16 CFR 1500.19 was found on the principle display panel of the product's packaging.

\*Retest samples were submitted on Dec 14, 2021.



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### US CPSC 16 CFR 1500.44 – METHOD FOR DETERMINING EXTREMELY FLAMMABLE AND FLAMMABLE SOLIDS

AS SPECIFIED IN US CPSC 16 CFR 1500.44 – METHOD FOR DETERMINING EXTREMELY FLAMMABLE AND FLAMMABLE SOLIDS

Sample  
E1635 HUMAN BODY PUZZLE

Burning Rate (inch/sec)  
DNI

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.

DNI = Did Not Ignite

### CPSC 16 CFR 1303 - Lead in Paint/Similar Surface Coating Materials

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

Test Item(s)			Lead (Pb)
Permissible Limit (ppm)			90
Specimen Description	Alias No.	Tracing No.	Result(s) (ppm)
1. Multi-color coating on wood (Body) + Red coating on wood (Body) + Orange coating on wood (Body)	5	1	ND
2. Light red coating on wood (Body) + Yellow coating on wood (Body) + Purple-red coating on wood (Body)	5	2	ND
3. Light blue coating on wood (Body) + Purple coating on wood (Body) + Multi-color coating on paper (Instruction, puzzle, box)	5	3	ND
4. Black coating	5	4	ND
5. White coating on wood (Body)	5	5	ND

- Note:
- ppm = parts per million
  - ND = Not Detected (lower than MDL)
  - MDL = Method Detection Limit = 10 ppm
  - 1% = 10000 mg/kg = 10000 ppm
  - For composite test: The result(s) is (are) calculated using the minimum specimen weight and the decision rule has prescribed in the regulation or standard, conformity reporting will base on the standard.
  - Result(s) of specimen No.4 is(are) extracted from report No. T52110271669TY



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**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:

- 1) Name: Hape International AG
- 2) Location: P2184200327NBCN 08/2021, Made in China
- 3) Date: P2184200327NBCN 08/2021
- 4) Cohort information: P2184200327NBCN 08/2021

- Tracking label found on the product:

- 1) Name: Hape International AG
- 2) Location: P2184200327NBCN 08/2021, Made in China
- 3) Date: P2184200327NBCN 08/2021
- 4) Cohort information: P2184200327NBCN 08/2021

Note: 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.

### **CPSIA - Lead in Paint/Similar Surface Coating Materials**

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

Test Item(s)			Lead (Pb)
Permissible Limit (ppm)			90
Client's Limit (ppm)			40
Specimen Description	Alias No.	Tracing No.	Result(s) (ppm)
1. Multi-color coating on wood (Body) + Red coating on wood (Body) + Orange coating on wood (Body)	6	1	ND
2. Light red coating on wood (Body) + Yellow coating on wood (Body) + Purple-red coating on wood (Body)	6	2	ND
3. Light blue coating on wood (Body) + Purple coating on wood (Body) + Multi-color coating on paper (Instruction, puzzle, box)	6	3	ND
4. Black coating	6	4	ND
5. White coating on wood (Body)	6	5	ND



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- Note:
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  - MDL = Method Detection Limit = 10 ppm
  - 1% = 10000 mg/kg = 10000 ppm
  - For composite test: The result(s) is (are) calculated using the minimum specimen weight and the decision rule has prescribed in the regulation or standard, conformity reporting will base on the standard.
  - Result(s) of specimen No.4 is(are) extracted from report No. T52110271669TY

### CPSIA - Lead in Accessible Substrate Materials

Method (non-metallic materials): With reference to CPSC-CH-E1002-08.3 - Standard Operation Procedure for Determining Total Lead (Pb) in Non-Metal Children Product

Method (metal materials): With reference to CPSC-CH-E1001-08.3 - Standard Operating Procedure for Determining Total Lead (Pb) in Children's Metal Products (Including Children's Metal Jewelry)

Test Item(s)	Lead (Pb)		
Permissible Limit **(ppm)	100		
Client's Limit (ppm)	40		
Specimen Description	Alias No.	Tracing No.	Result(s) (ppm)
1. Silvery metal ring	7	1	ND
2. Silvery metal holder	7	2	ND
3. Silvery metal big nail cap	7	3	ND
4. Silvery metal small nail cap	7	4	ND
5. Silvery metal lock holder on cover	7	5	ND
6. Silvery metal lock holder on box	7	6	ND
7. Silvery metal hasp	7	7	ND
8. Silvery metal hasp holder	7	8	ND
9. Brown hardboard (Body) + Dark brown hardboard (Body)	8	1	22
10. Transparent plastic film (Box) + Blue plastic (Handle)	8	2	ND

\*\* Permissible Limit applies to a children's product manufactured after 14 August 2011 (Public Law 110-314 (Consumer Product Safety Improvement Act of 2008) and its Amendments Public Law 112-28)



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- Note:
- ppm = parts per million
  - ND = Not Detected (lower than MDL)
  - MDL = Method Detection Limit = 10 ppm
  - 1% = 10000 mg/kg = 10000 ppm
  - For composite test: The result(s) is (are) calculated using the minimum specimen weight and the decision rule has prescribed in the regulation or standard, conformity reporting will base on the standard.

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2. The statement of conformity has considered the decision rule based on the Guarded acceptance (8.3.2 of ISO/IEC GUIDE 98-4:2012). When the measured value falls within the guard band, only the test data and measurement uncertainty will be reported. The guard band is equal to the expanded measurement uncertainty with a 95% coverage probability( $k=2$ ),  $w = U_{95}$ . The Probability of False Accept and the Probability of False Reject of the decision rule are 2.5%.

For Upper Tolerance Limit ( $T_U$ ):

Pass - when the measurement result is below  $T_U - U_{95}$

Fail - when the measurement result is above  $T_U + U_{95}$

Inconclusive - when the measurement result is falling in guard band  $[T_U - U_{95}, T_U + U_{95}]$

For Lower Tolerance Limit ( $T_L$ ):

Pass - when the measurement result is above  $T_L + U_{95}$

Fail - when the measurement result is below  $T_L - U_{95}$

Inconclusive - when the measurement result is falling in guard band  $[T_L - U_{95}, T_L + U_{95}]$



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Sample Picture (As received)

Pic.1



Pic.2



背部围边包面



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