

# EN71 CERTIFICATE

Sunmicrotek and 3rd party(SGS) provide the certification of compliance below;

Certificate No.	Product Description	Issued Date
F690101/LF-CTSAYHA20-12777 SGS File No. AYHA20-12777	Heat Transfer Vinyl HAIR LINE(SHA)	2020. 10. 07

Test Requested	Conclusion
EN71-3:2013 + A3:2018 - Migration of certain elements (By all conclusive testing)	PASS

## Manufacturer

SUNMICROTEK CO., LTD.  
#1107 Gayang techno town  
217 Heojun-ro, Seoul  
Korea

## Approved 3rd Party Test Laboratory

322, The O valley, 76, LS-ro, Dongan-gu, Anyang-si,  
Gyeonggi-do, Korea 14117  
SGS Korea Co., Ltd.  
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## Certification

Test Item	Result(mg/kg)
Mass of trace amount (mg)	-
Soluble Aluminium (Al)	ND
Soluble Antimony (Sb)	ND
Soluble Arsenic (As)	ND
Soluble Barium (Ba)	ND
Soluble Boron (B)	ND
Soluble Cadmium (Cd)	ND
Soluble Chromium (Cr)	ND
Soluble Chromium III (Cr III)	ND
Soluble Chromium VI (Cr VI)	ND
Soluble Cobalt (Co)	ND
Soluble Cooper (Cu)	ND
Soluble Lead (Pb)	ND
Soluble Manganese (Mn)	ND
Soluble Mercury (Hg)	ND
Soluble Nickel (Ni)	ND
Soluble Selenium (Se)	ND
Soluble Strontium (Sr)	ND
Soluble Tin (Sn)	ND

**Test Item**

Soluble Organic Tin	ND
Soluble Zinc (Zn)	ND

**Conclusion** **PASS**

Test Item	Soluble Organic Tin Result(s) (mg/kg)	MDL(mg/kg)
Methyl tin (MeT)	ND	0.5
Di-n-propyl tin (DProT)	ND	0.5
Butyl tin (BuT)	ND	0.5
Tributyl tin (TBT)	ND	0.5
n-Octyl tin (MOT)	ND	0.5
Terabutyl tin (TeBT)	ND	0.5
Diphenyl tin (DPhT)	ND	0.5
Di-n-octyl tin (DOT)	ND	0.5
Triphenyl tin(TPhT)	ND	0.5

**SGS**

**Records Contact**

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Email : sales@sm-tf.com

# CPSIA CERTIFICATE

Sunmicrotek and 3rd party(SGS) provide the certification of compliance below;  
In accordance with section 14(g) of the consumer product safety act, 15 U.S.C §2063(g)

## Certificate No.

F690101/LF-CTSAYHA20-12774  
SGS File No. AYHA20-12774

## Product Description

Heat Transfer Vinyl  
HAIR LINE(SHA)

## Valid Date

2020. 10. 07

## Test Part

CPSIA section 101(a)(2) – Lead in accessible substrate materials  
CPSIA section 108 - Phthalates

## Manufacturer

SUNMICROTEK CO., LTD.  
#1107 Gayang techno town  
217 Heojun-ro, Seoul  
Korea

## Approved 3rd Party Test Laboratory

322, The O valley, 76, LS-ro, Dongan-gu, Anyang-si,  
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## Certification

Test Item	CAS No.	Result(s)
Dibutyl Phthalate (DBP)	84-74-2	ND
Benzylbutyl Phthalate (BBP)	85-68-7	ND
Bis-(2-ethylhexyl) Phthalate (DEHP)	117-81-7	ND
Di-isononyl Phthalate (DINP)	28553-12-0 / 68515-48-0	ND
Di-cyclohexylphthalate (DCHP)	84-61-7	ND
Di-n-Hexylphthalate (DnHP)	84-75-3	ND
Diisobutyl Phthalate (DIBP)	84-69-5	ND
Di-n-pentylPhthalate (DnPP)	131-18-0	ND
<b>Conclusion</b>		<b>PASS</b>

## Records Contact

SUNMICROTEK CO., LTD.  
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**SUNMICROTEK CO., LTD.**  
 1107 Gayang techno town, 1487 Gayang-dong  
 Gangseo-gu, Seoul  
 Korea

The following sample(s) was/were submitted and identified by/on behalf of the client as:-

**SGS File No.** : AYHA20-12774  
**Sample Description** : SHA  
**Style no./Item no.** : -  
**Order No.** : -  
**Manufacturer** : -  
**Country of Origin** : -  
**Country of Destination** : -  
**Received Date** : 2020. 09. 25  
**Test Period** : 2020. 09. 25 to 2020. 10. 07  
**Test Requested** : As specified by client, selected parts of the submitted sample(s) for compliance with Public Law 110-314 (Consumer Product Safety Improvement Act of 2008, CPSIA):-  
 1) Lead in accessible substrate materials  
 2) Phthalates  
**Test Method and Results** : For further details, please refer to following page (s)  
**Report Comments** : The results shown in this test report refer only to the sample(s) tested unless otherwise stated.  
 This test report is not related to Korea Laboratory Accreditation Scheme.  
**Result Summary** :

<u>Item</u>	<u>Test Parameter</u>	<u>Conclusion</u>
1	CPSIA section 101(a)(2) - Lead in accessible substrate materials	<b>PASS</b>
2	CPSIA Section 108 - Phthalate content	<b>PASS</b>

Remark: Test results in this report are applicable for the item tested and reflects the tested sample as received.

SGS Korea Co., Ltd.



Tommy Oh / Chemical Lab Mgr

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# Test Report

No. F690101/LF-CTSAYHA20-12774

Issued Date : 2020. 10. 07

Page 2 of 3

## Results :

### 1) Lead in accessible substrate materials

Test Method (non-metallic materials): With reference to CPSC-CH-E1002-08.3. Analysis was performed by ICP-OES.

Test Item	MDL	Result(s)	Permissible Limit
		<u>1</u>	
Lead (Pb)	0.002%	N. D.	0.01 %
<b>Conclusion</b>	-	<b>PASS</b>	--

### 2) Phthalates

Test Method: With reference to CPSC-CH-C1001-09.4. Analysis was performed by GC-MS.

#### Concentration of phthalates in components of childcare articles and toy product

Test Item(s)	CAS No.	Unit	Result(s)	Permissible Limit per component
			<u>1</u>	
Dibutyl Phthalate (DBP)	84-74-2	%	N. D.	0.1 %
Benzylbutyl Phthalate (BBP)	85-68-7	%	N. D.	0.1 %
Bis-(2-ethylhexyl) Phthalate (DEHP)	117-81-7	%	N. D.	0.1 %
Di-isononylphthalate (DINP)	28553-12-0 / 68515-48-0	%	N. D.	0.1 %
Di-cyclohexylphthalate (DCHP)	84-61-7	%	N. D.	0.1 %
Di-n-Hexylphthalate (DnHP)	84-75-3	%	N. D.	0.1 %
Diisobutyl phthalate (DIBP)	84-69-5	%	N. D.	0.1 %
Di-n-pentylphthalate (DnPP)	131-18-0	%	N. D.	0.1 %
<b>Conclusion</b>		--	<b>PASS</b>	--

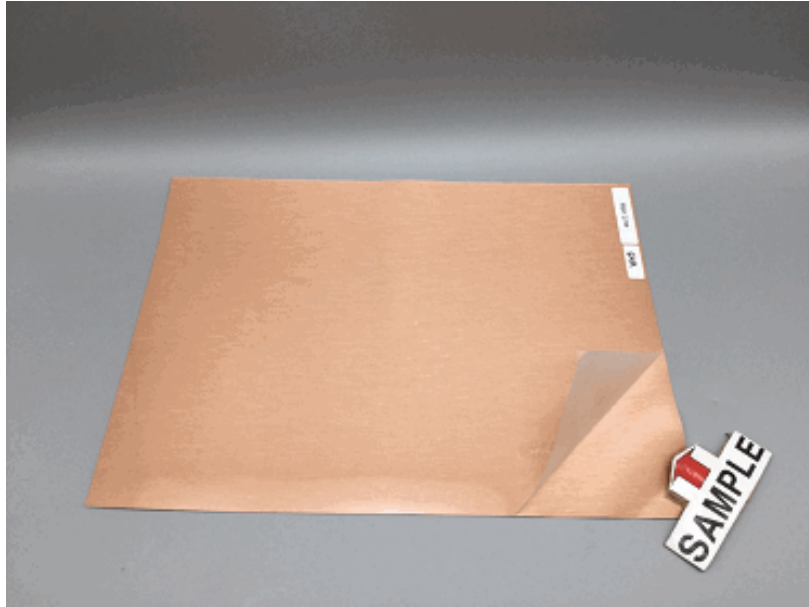
## Sample Description :

- Gold sheet

- Note:
1. N. D. = Not Detected (lower than Detection Limit)
  2. 1 % = percentage by weight
  3. 1 % = 10000 ppm (mg/kg)
  4. Detection Limit for each phthalate = 0.015 %

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**Picture of Sample as Received :**



**AYHA20-12774**

\*\*\* End of Report \*\*\*

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