

# EN71 CERTIFICATE

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

## Certificate No.

F690101/LF-CTSAYHA19-07080  
SGS File No. AYHA19-07080

## Product Description

Heat Transfer Vinyl  
GLOW IN THE DARK(SGD)

## Issued Date

2019. 06. 19

## Test Requested

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

## Conclusion

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.  
t +82 (0)31 4608 000 f +82 (0)31 4608 059

SGS

## Certification

Test Item	Result(mg/kg)
Mass of trace amount (mg)	-
Soluble Aluminium (Al)	3,440
Soluble Antimony (Sb)	ND
Soluble Arsenic (As)	ND
Soluble Barium (Ba)	ND
Soluble Boron (B)	153
Soluble Cadmium (Cd)	ND
Soluble Chromium (Cr)	0.18
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)	6,410
Soluble Tin (Sn)	ND

**Test Item**

Soluble Organic Tin	ND
Soluble Zinc (Zn)	ND

**Conclusion** **PASS**

<b>Test Item</b>	<b>Soluble Organic Tin Result(s) (mg/kg)</b>	<b>MDL(mg/kg)</b>
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-CTSAYHA18-04621  
SGS File No. AYHA18-04621

## Product Description

Heat Transfer Vinyl GLOW IN THE DARK(SGD)

## Issued Date

2018. 05. 10

## 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,  
Gyeonggi-do, Korea 14117  
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## Certification

Test Item	CAS No.	Result(s)
Lead (Pb)	-	ND
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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# Test Report

No. F690101/LF-CTSAYHA18-04621

Issued Date: 2018. 05. 10

Page 1 of 4

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.** : AYHA18-04621  
**Sample Description** : SGD  
**Style no./Item no.** : -  
**Order No.** : -  
**Buyer** : -  
**Manufacturer** : -  
**Country of Origin** : -  
**Country of Destination** : -  
**Received Date** : 2018. 05. 02  
**Test Period** : 2018. 05. 02 to 2018. 05. 10  
**Test Method** : For further details, please refer to following page (s)  
**Test Results** : For further details, please refer to following page (s)  
**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  
**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 - Phthalates	<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

Jeff Jang / Chemical Lab Mgr

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# Test Report

No. F690101/LF-CTSAYHA18-04621

Issued Date: 2018. 05. 10

Page 2 of 4

## Result(s)

### 1) Lead in accessible substrate materials

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

Test Items	MDL	Result(s)	Permissible Limit
		1	
Lead (Pb)	0.002%	ND	0.01 %
<b>Conclusion</b>	-	<b>PASS</b>	-

### Sample Description :

1. SGD (Mint)

- Note:
1. % = percentage by weight
  2. 1% = 10000ppm (mg/kg)
  3. N. D. = not detected (< MDL)

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# Test Report

No. F690101/LF-CTSAYHA18-04621

Issued Date: 2018. 05. 10

Page 3 of 4

## 2) Phthalates

Method: With reference to CPSC-CH-C1001-09.3+. Analysis was performed by GC-MS.

### Concentration of phthalates in components of child care articles and toy product

Test Item(s)	CAS No.	Unit	Result(s)	Permissible Limit (%)
			1	
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 :

1. SGD (Mint)

- Note:
1. % = percentage by weight
  2. 1% = 10000ppm (mg/kg)
  3. N. D. = not detected (< MDL)
  4. Method Detection Limit for each phthalate = 0.015 %
  5. + = According to 16 CFR 1307 'Prohibition of Children's Toys and Child Care Articles Containing Specified Phthalates'

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**Picture of Sample as Received :**



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

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