

EN71 CERTIFICATE

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

Certificate No.

F690101/LF-CTSAYHA21-01255
SGS File No. AYHA21-01255

Product Description

Heat Transfer Vinyl
Glow in the dark(SGD)

Issued Date

2021. 02. 03

Test Requested

EN71-3:2013 + A3:2019 - 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.
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SGS

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)	0.55
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

The logo for SGS, consisting of the letters 'SGS' in a bold, sans-serif font, with a horizontal line underneath the letters.**Records Contact**

SUNMICROTEK CO., LTD.
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EN71 CERTIFICATE

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

Certificate No.

F690101/LF-CTSAYHA21-01254
SGS File No. AYHA21-01254

Product Description

Heat Transfer Vinyl
Reflective(SRE)

Issued Date

2021. 02. 03

Test Requested

EN71-3:2013 + A3:2019 - 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

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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)	0.55
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
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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

The logo for SGS, consisting of the letters 'SGS' in a bold, sans-serif font, with a horizontal line underneath the letters.**Records Contact**

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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.	Product Description	Issued Date
F690101/LF-CTSAYHA18-04621 SGS File No. AYHA18-04621	Heat Transfer Vinyl GLOW IN THE DARK(SGD)	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,
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Certification

Test Item	CAS No.	Result(s)
Lead (Pb)	-	ND
Dibutyl Phthalate (DBP)	84-74-2	ND
Benzylbutyl Phtalate (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
Conclusion		PASS

Records Contact

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Test Report

No. F690101/LF-CTSAYHA18-04621

Issued Date: 2018. 05. 10

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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. : 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	PASS
2	CPSIA section 108 - Phthalates	PASS

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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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 %
Conclusion	-	PASS	-

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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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 %
Conclusion	-	-	PASS	-

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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