

EN71 CERTIFICATE

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

Certificate No.	Product Description	Issued Date
F690101/LF-CTSAYHA20-12779 SGS File No. AYHA20-12779	Heat Transfer Vinyl HEAT SENSITIVE PU(SHS)	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

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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
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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

**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.

F690101/LF-CTSAYHA20-12776
SGS File No. AYHA20-12776

Product Description

Heat Transfer Vinyl
HEAT SENSITIVE PU(SHS)

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
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Approved 3rd Party Test Laboratory

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SGS

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
Conclusion		PASS

Records Contact

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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.	:	AYHA20-12776
Sample Description	:	SHS
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	PASS
2	CPSIA Section 108 - Phthalate content	PASS

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-CTSAYHA20-12776

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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 %
Conclusion	-	PASS	--

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 %
Conclusion		--	PASS	--

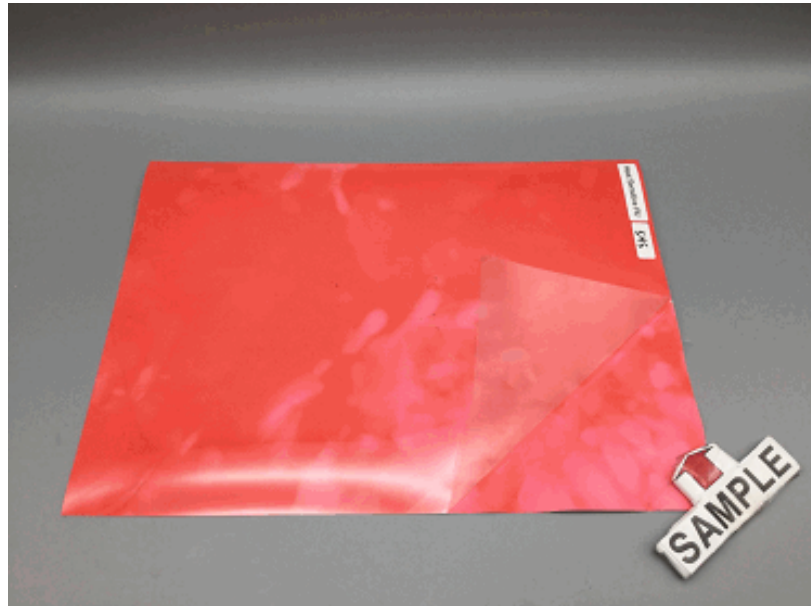
Sample Description :

1. Red 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 :



AYHA20-12776

*** End of Report ***

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