

EN71 CERTIFICATE

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

Certificate No.	Product Description	Issued Date
F690101/LF-CTSAYHA21-01246 SGS File No. AYHA21-01246	Heat Transfer Vinyl PU(SPU)	2021. 02. 03

Test Requested	Conclusion
EN71-3:2013 + A3:2019 - Migration of certain elements (By all conclusive testing)	PASS

Supplier
GREENSTIK MATERIALS LTD
Unit 9, Lancaster Road, Carnaby
Industrial Estate,
Carnaby, Bridlington, East Yorkshire, UK

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)	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.**Record Contacts**

GREENSTIK MATERIALS LTD
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Test Report

No. F690101/LF-CTSAYHA17-03736

Issued Date: 2017. 04. 18

Page 1 of 3

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

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

SGS File No. : AYHA17-03736
Sample Description : SPU
Style no./Item no. : -
Order No. : -
Buyer : -
Manufacturer : -
Country of Origin : -
Country of Destination : -
Received Date : 2017. 04. 11
Test Period : 2017. 04. 11 to 2017. 04. 14
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 :

Item	Test Parameter	Conclusion
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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Component List / List of Materials

Sample No.	Material No.	Component	Material	Color	Remark
/	1	White polymer sheet	Polymer	White	/

Result(s)

1) Lead in accessible substrate materials

Method (non-metallic materials): CPSC Test Method: CPSC-CH-E1002-08.1. Analysis was performed by ICP-OES.

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

- Note: (1) N. D. = not detected (< MDL)
 (2) MDL = Method Detection Limit
 (3) % = percentage by weight

2) Phthalates

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

Concentration of phthalates in components of toy that can be placed in the mouth or childcare article

Test item	CAS No.	MDL	Result(s)	Permissible Limit
			<u>1</u>	
Dibutyl Phthalate (DBP)	84-74-2	0.005 %	ND	0.1 %
Benzylbutyl Phthalate (BBP)	85-68-7	0.005 %	ND	0.1 %
Bis-(2-ethylhexyl) Phthalate (DEHP)	117-81-7	0.005 %	ND	0.1 %
Diisononyl Phthalate (DINP)	28553-12-0 / 68515-48-0	0.005 %	0.007	0.1 %
Di-n-octyl Phthalate (DNOP)	117-84-0	0.005 %	ND	0.1 %
Diisodecyl Phthalate (DIDP)	26761-40-0 / 68515-49-1	0.005 %	ND	0.1 %
Conclusion	-	-	PASS	-

- Note: (1) ND = not detected (< MDL)
 (2) MDL = Method Detection Limit
 (3) % = percentage by weight
 (4) 1% = 10000ppm (mg/kg)

Picture of Sample as Received :



*** End of Report ***

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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-CTSAYHA17-03736
SGS File No. AYHA17-03736

Product Description

Heat Transfer Vinyl PU(SPU)

Issued Date

2017. 04. 11

Test Part

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

Manufacturer

SUNMICROTEK CO., LTD.
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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	0.007
Di-n-octyl Phthalate (DNOP)	117-84-0	ND
Diisodecyl Phthalate (DIDP)	26761-40-0 / 68515-49-1	ND
Conclusion		PASS

Records Contact

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