EN71 CERTIFICATE

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

Certificate No.

F690101/LF-CTSAYHA19-07087 SGS File No. AYHA19-07087

Product Description

Heat Transfer Vinyl PU(SPU)

Issued Date

2019.06.19

Test Requested

EN71-3:2013 + A3:2018 - Migration of certain elelments (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

Certification

Test Item	Result(mg/kg
Mass of trace amount (mg)	-
Soluble Aluminium (AI)	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

SGS

Records Contact

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

Tel: +82 2 338 6670 Email: sales@sm-tf.com





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 :

<u>Item</u>	<u>Test Parameter</u>	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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Issued Date: 2017. 04. 18

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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
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></u>	LIIIII
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% = 10000 ppm (mg/kg)

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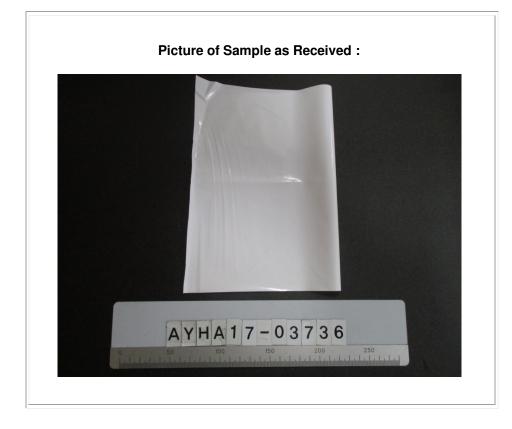


Test Report

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*** 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. #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

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	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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