EN71 CERTIFICATE

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

Certificate No. F690101/LF-CTSAYHA21-00852 SGS File No. AYHA21-00852	Product Description Heat Transfer Vinyl Holoshine Flex(SHF)	Issued Date 2021. 01. 18
Test Requested EN71-3:2013 + A3:2019 - Migration of ce	ertain elelments	Conclusion PASS

Manufacturer Approved 3rd Party Test Laboratory

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

322, The O valley, 76, LS-ro, Dongan-gu, Anyang-si, Gyeonggi-do, Korea 14117 SGS Korea Co., Ltd. 1+82 (0)31 4608 000 f+82 (0)31 4608 059

Certification

Test Item
Mass of trace amount (mg)
Soluble Aluminium (AI)
Soluble Antimony (Sb)
Soluble Anseric (As)
Soluble Barium (Ba)
Soluble Barium (Ba)
Soluble Bornon (B)
Soluble Cadminum (Cd)
Soluble Commium (ICr III)
Soluble Chromium II (Cr III)
Soluble Chromium II (Cr IVI)
Soluble Cobalt (Co)
Soluble Coper (Cu)
Soluble Lead (Pb)
Soluble Marcury (Hg)
Soluble Marcury (Hg)
Soluble Marcury (Hg)
Soluble Selenium (Se)
Soluble Soluble Selenium (Se)
Soluble Marcury (Hg)
Soluble Soluble Selenium (Se)
Soluble Tin (Sn) Test Item Result(mg/kg)

SMITE

Soluble Organic Tin Soluble Zinc (Zn)

Conclusion PASS

MDL(mg/kg) Methyl tin (MeT)
Di-n-propyl tin (DProT)
Butyl tin (BuT)
Tributyl tin (TBT)
n-Octyl tin (MOT)
Terabutyl tin (TBBT)
Diphenyl tin (DPhT)
Di-n-octyl tin (DOT)
Triphenyl tin (TPhT) 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5

SGS

Records Contact

SUNMICROTEK CO., LTD. #1107 Gavang techno town 217 Heojun-ro, Seoul Korea Tel: +82 2 338 6670 Email: sales@sm-tf.com

SGS

Result Summary

Test Report No. F690101/LF-CTSAYHA21-00852

Issued Date: 2021. 01. 25 Page 1 of 4

SUNMICROTEK 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:-

AYHA21-00852 Sample Description SHF Order No. Buyer Manufacturer Country of Origin : South Korea Country of Destination Received Date

Test Period 2021. 01. 18 to 2021. 01. 25

Test Result(s) 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

Test Requested Conclusion Directive 2009/48/EC and its amendment Council Directive (EU) 2017/738, Commission Directive (EU) 2018/725 - EN71-3:2019 - Migration of certain elements (By all conclusive testing)

SGS Korea Co., Ltd.

tommy

Tommy Oh / Chemical Lab Mgr

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SGS

Test Report No. F690101/LF-CTSAYHA21-00852

Issued Date : 2021. 01. 25 Page 2 of 4

Directive 2009/48/EC and its Amendment Council Directive (EU) 2017/738, Commission Directive (EU) 2018/725 - EN71-3: 2019 - Migration of certain elements

Category III: Scrapped-off toy material

Method: With reference to EN71-3:2019. Analysis of general elements was performed by ICP-OES and Chromium (III) was obtained by calculation, chromium (VI) was analyzed by IC-UV/VIS. Organic Tin was analyzed by GC-MS.

		Result (mg/kg)	Reporting	Permissible Limit	
Test Item		1	Limit (mg/kg)	(EN71-3:2019) (mg/kg)	
Mass of trace amount	(mg)	-	-	-	
Soluble Aluminium	(AI)	ND	50	70,000	
Soluble Antimony	(Sb)	ND	10	560	
Soluble Arsenic	(As)	ND	10	47	
Soluble Barium	(Ba)	ND	50	18,750	
Soluble Boron	(B)	ND	50	15,000	
Soluble Cadmium	(Cd)	ND	5	17	
Soluble Chromium (III)	(Cr (III))	ND	5	460	
Soluble Chromium (VI)	(Cr (VI))	ND	0.01	0.053	
Soluble Cobalt	(Co)	ND	10	130	
Soluble Copper	(Cu)	ND	50	7,700	
Soluble Lead	(Pb)	ND	10	23	
Soluble Manganese	(Mn)	ND	50	15,000	
Soluble Mercury	(Hg)	ND	10	94	
Soluble Nickel	(Ni)	ND	10	930	
Soluble Selenium	(Se)	ND	10	460	
Soluble Strontium	(Sr)	ND	50	56,000	
Soluble Tin	(Sn)	ND	4.9	180,000	
Soluble Organic Tin	-	ND	-	12	
Soluble Zinc	(Zn)	ND	50	46,000	
Comment / Conclusion		PASS	-		

CQP-7081-F01 (01)



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Test Item(s)		Soluble Organic Tin Result(s) (mg/kg)	MDL
		1	(mg/kg)
Dimethyl tin	(DMT)	ND	0.5
Methyl tin	(MeT)	ND	0.5
Di-n-propyl tin	(DProT)	ND	0.5
Butyl tin	(BuT)	ND	0.5
Dibutyl tin	(DBT)	ND	0.5
Tributyl tin	(TBT)	ND	0.5
n-Octyl tin	(MOT)	ND	0.5
Di-n-octyl tin	(DOT)	ND	0.5
Tetrabutyl tin	(TeBT)	ND	0.5
Diphenyl tin	(DPhT)	ND	0.5
Triphenyl tin	(TPhT)	ND	0.5

Sample Description :

1. Red hologram sheet

Note. 1. mg/kg = milligram per kilogram
2. ND = Not Detected (< MDL)
3. 1% = 10000 mg/kg = 10000 pm
4. Soluble Chromium (III) = Soluble Total Chromium – Soluble Chromium (VI)

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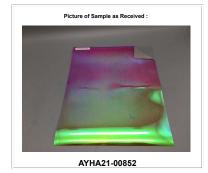
CQP-7081-F01 (01)

SGS Korea Co., Ltd. 322, The O valley, 76, LS-ro, Dongan-gu, Anyang-si, Oyeonggi-do, Korea 14117 t+82 (0)31 4608 000 f+82 (0)31 4608 009 http://www.saggroup.tr

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*** End of Report ***

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