

Test Report

No. F690101/LF-CTSAYHA21-05843

Issued Date: 2021. 05. 21

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DAE HA CO.,LTD
9F, Dae Ha Bldg. 499 Gangseo-ro
Gangseo-gu, Seoul
Korea

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

SGS File No. : AYHA21-05843
Sample Description : LUMINOUS
Style no./Item no. : -
Order No. : -
Buyer : -
Manufacturer : -
Country of Origin : KOREA
Country of Destination : -
Received Date : 2021. 05. 13
Test Period : 2021. 05. 13 to 2021. 05. 21
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.
Result Summary :

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)	PASS

SGS Korea Co., Ltd.



Tommy Oh / Chemical Lab Mgr

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Test Results :

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.

Test Item	Result (mg/kg)	Reporting Limit (mg/kg)	Permissible Limit (EN71-3:2019) (mg/kg)
	1		
Mass of trace amount (mg)	--	--	--
Soluble Aluminium (Al)	6,920	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)	223	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)	12,700	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	--	--

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Test Item(s)	Soluble Organic Tin Result(s) (mg/kg)		MDL (mg/kg)
	1		
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. Light green sheet

Note. 1. mg/kg = milligram per kilogram

2. ND = Not Detected (< MDL)

3. 1% = 10000 mg/kg = 10000 ppm

4. Soluble Chromium (III) = Soluble Total Chromium – Soluble Chromium (VI)

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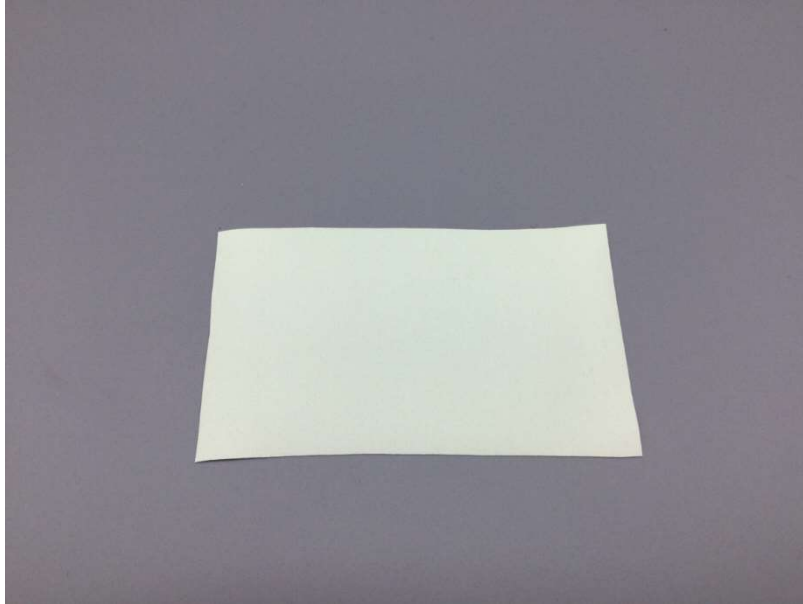
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Picture of Sample as Received :



AYHA21-05843

*** End of Report ***

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