

SEHA CORPORATION
 720 Sang-ri, Yooga-myun
 Dalsung-gun, Daegu
 Korea

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

SGS File No.	: AYHA21-04356
Sample Description	: TIGER Manila DUPLEX BOARD
Style no./Item no.	: -
Order No.	: -
Buyer	: -
Manufacturer	: -
Country of Origin	: KOREA
Country of Destination	: -
Received Date	: 2021. 03. 29
Test Period	: 2021. 03. 29 to 2021. 04. 05
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

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)	371		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)	51		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 Report

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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. Paper

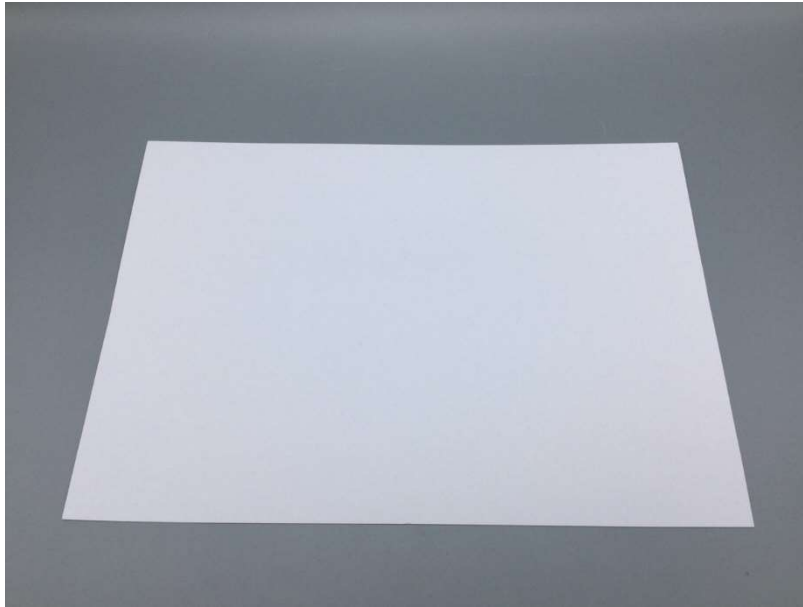
Note. 1. mg/kg = milligram per kilogram

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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Picture of Sample as Received :**AYHA21-04356**

*** End of Report ***

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