

Test Report

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New Prismatic Enterprise Co., Ltd.
4F., No. 203-1, Yung Feng Rd., Tu-Cheng District, New Taipei City 236, Taiwan

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

Material Name	: Thermochromic Slurry 31C Green-BF
Color	: Green
Style / Item No.	: TM-SLF 31-3429
Material Composition	: Organic Pigment
Sample Submitted By	: New Prismatic Enterprise Co., Ltd.
Sample Receiving Date	: Jan 25, 2021
Testing Period	: Jan 25, 2021 ~ Feb 02, 2021

Test Method & Results : Please refer to next page(s).

Ray Chang
Ray Chang Ph.D. / Manager - Tech
Signed for and on behalf of
SGS Taiwan Limited
Chemical Laboratory-Kaohsiung



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Test Results :

EN71-3: 2019 – Migration of certain elements

Category II: Liquid or Sticky toy material

Method: With reference to EN71-3: 2019. Analysis of general elements was performed by ICP-MS. Chromium (III) was obtained by calculation, Chromium (VI) was analyzed by LC-ICP-MS. Organic Tin was analyzed by GC-MS.

Test Item		Result (mg/kg)	Reporting Limit (mg/kg)	Reference Limit** (mg/kg)
		1		
Soluble Aluminium	(Al)	n.d.	50	1,406
Soluble Antimony	(Sb)	n.d.	1	11.3
Soluble Arsenic	(As)	n.d.	0.4	0.9
Soluble Barium	(Ba)	n.d.	50	375
Soluble Boron	(B)	n.d.	50	300
Soluble Cadmium	(Cd)	n.d.	0.1	0.3
Soluble Chromium (III)	(Cr (III))	n.d.	1	9.4
Soluble Chromium (VI)	(Cr (VI))	n.d.	0.0025	0.005
Soluble Cobalt	(Co)	n.d.	0.5	2.6
Soluble Copper	(Cu)	n.d.	50	156
Soluble Lead	(Pb)	n.d.	0.2	0.5
Soluble Manganese	(Mn)	n.d.	50	300
Soluble Mercury	(Hg)	n.d.	0.5	1.9
Soluble Nickel	(Ni)	n.d.	9	18.8
Soluble Selenium	(Se)	n.d.	4	9.4
Soluble Strontium	(Sr)	n.d.	50	1,125
Soluble Zinc	(Zn)	n.d.	50	938
Soluble Tin	(Sn)	n.d.	0.08	3,750
Soluble Organic Tin	--	n.d.	--	0.2

Test Item(s)		Soluble Organic Tin Result(s) (mg/kg)	MDL (mg/kg)
		1	
Methyl tin	(MeT)	n.d.	0.03
Dimethyl tin	(DMT)	n.d.	0.03
Di-n-propyl tin	(DProT)	n.d.	0.03
Butyl tin	(BuT)	n.d.	0.03
Dibutyl tin	(DBT)	n.d.	0.03
Tributyl tin	(TBT)	n.d.	0.03
n-Octyl tin	(MOT)	n.d.	0.03
Tetrabutyl tin	(TeBT)	n.d.	0.03
Diphenyl tin	(DPhT)	n.d.	0.03
Di-n-octyl tin	(DOT)	n.d.	0.03
Triphenyl tin	(TPhT)	n.d.	0.03

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Sample Description :

1. Green Liquid

Note : - mg/kg = milligram per kilogram

- n.d. = Not Detected

- 1% = 10000 mg/kg = 10000 ppm

- Soluble Chromium (III) = Soluble Total Chromium – Soluble Chromium (VI)

Remark : ** = Test requirement in the submitted sample is not applicable. The product scope that mentioned by European Directive 2009/48/EC and its amendment Council Directive (EU) 2017/738, Commission Directive (EU) 2018/725 is for toy material.

Sample Photo

SFW21101662



SGS authenticate the photo on original report only

*** End of Report ***

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