

Test Report

KE/2019/11122

Date : Jan 16, 2019

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New Prismatic Enterprise Co., Ltd.
No. 4, Alley 27, Lane 195, 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 MC Pigment 22C S.Blue-BPAFree
Color	: S.Blue
Style / Item No.	: TM-PDF-22-3132
Material Composition	: Pigment
Sample Submitted By	: New Prismatic Enterprise Co., Ltd.
Sample Receiving Date	: Jan 10, 2019
Testing Period	: Jan 10, 2019 ~ Jan 16, 2019

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 :

EN71-3:2013+A3:2018 – Migration of certain elements

Category I: Dry, brittle, powder-like or pliable toy material

Method : With reference to EN 71-3:2013+A3:2018. Analysis of general elements was performed by ICP-MS. Chromium III & Chromium VI were 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	5,625
Soluble Antimony	(Sb)	n.d.	1	45
Soluble Arsenic	(As)	n.d.	0.5	3.8
Soluble Barium	(Ba)	n.d.	50	1,500
Soluble Boron	(B)	n.d.	50	1,200
Soluble Cadmium	(Cd)	n.d.	0.1	1.3
Soluble Chromium (III)	(Cr (III))	n.d.	5	37.5
Soluble Chromium (VI)	(Cr (VI))	n.d.	0.018	0.02
Soluble Cobalt	(Co)	n.d.	0.5	10.5
Soluble Copper	(Cu)	n.d.	50	622.5
Soluble Lead	(Pb)	n.d.	0.5	2.0
Soluble Manganese	(Mn)	n.d.	50	1,200
Soluble Mercury	(Hg)	n.d.	0.5	7.5
Soluble Nickel	(Ni)	n.d.	10	75
Soluble Selenium	(Se)	n.d.	5	37.5
Soluble Strontium	(Sr)	n.d.	50	4,500
Soluble Zinc	(Zn)	n.d.	50	3,750
Soluble Tin	(Sn)	n.d.	0.36	15,000
Soluble Organic Tin	--	n.d.	--	0.9

Test Item(s)		Soluble Organic Tin Result(s) (mg/kg)	MDL (mg/kg)
		1	
Methyl tin	(MeT)	n.d.	0.14
Di-n-propyl tin	(DProT)	n.d.	0.14
Butyl tin	(BuT)	n.d.	0.14
Dibutyl tin	(DBT)	n.d.	0.14
Tributyl tin	(TBT)	n.d.	0.14
n-Octyl tin	(MOT)	n.d.	0.14
Tetrabutyl tin	(TeBT)	n.d.	0.14
Diphenyl tin	(DPhT)	n.d.	0.14
Di-n-octyl tin	(DOT)	n.d.	0.14
Triphenyl tin	(TPhT)	n.d.	0.14

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Sample Description :

1. S.Blue Pigment

Note : - mg/kg = milligram per kilogram
- n.d. = Not Detected
- 1% = 10000 mg/kg = 10000 ppm

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 is for toy material.

Sample Photo

KE/2019/11122



SGS authenticate the photo on original report only

*** End of Report ***

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