

Test Report

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New Prismatic Enterprise Co., Ltd.

No. 203-1, Yongfeng Rd., Tucheng District, New Taipei City 236004, Taiwan

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

Material Name	: Thermochromic MC Pigment 31°C Red、43/45C R.Red-1、 50c Black BF
Color	: Red、 R.Red-1、 Black
Style / Item No.	: TM-PDF 38-3111、 TM-PDF43-3112-1、 TM-PDF50-3141
Style Name	: Powder
Material Composition	: Encapsulated Organic Pigment
Sample Submitted By	: New Prismatic Enterprise Co., Ltd.

Sample Receiving Date	: Jun 13, 2023
Testing Period	: Jun 13, 2023 - Jun 17, 2023

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

Ray Chang, Ph.D. / Department Manager

Signed for and on behalf of

SGS Taiwan Ltd.

Chemical Laboratory-Kaohsiung



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Test Results :

EN71-3: 2019 + A1:2021 – Migration of certain elements

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

Method : With reference to EN71-3: 2019 + A1:2021. 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+2+3		
Soluble Aluminum	(Al)	n.d.	50	2,250
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.	0.01	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+2+3	
Methyl tin	(MeT)	n.d.	0.135
Dimethyl tin	(DMT)	n.d.	0.135
Di-n-propyl tin	(DProT)	n.d.	0.135
Butyl tin	(BuT)	n.d.	0.135
Dibutyl tin	(DBT)	n.d.	0.135
Tributyl tin	(TBT)	n.d.	0.135
n-Octyl tin	(MOT)	n.d.	0.135
Tetrabutyl tin	(TeBT)	n.d.	0.135
Diphenyl tin	(DPhT)	n.d.	0.135
Di-n-octyl tin	(DOT)	n.d.	0.135
Triphenyl tin	(TPhT)	n.d.	0.135

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Sample Description :

1. Red Powder
2. R.Red Powder
3. Black Powder

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)

- Composite test is conducted as per client's request.

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) 2019/1922 is for toy material.

Sample Photo

SFW23600457



SGS authenticate the photo on original report only

*** End of Report ***

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