

Test Report

Report No.: SFW23600465

Report Issue Date : Jun 17, 2023

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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 Slurry 18°C Dark Blue BF、22°C Dark Blue BF、29°C Yellow BF-2
Color	:	Dark Blue BF、Dark Blue BF、Yellow BF-2
Style / Item No.	:	TM-SLF 18-3434、TM-SLF 22-3434、TM-SLF 29-3421-2
Style Name	:	Slurry
Material Composition	:	Encapsulated Organic Pigment
Sample Submitted By	:	New Prismatic Enterprise Co., Ltd.

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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 II: Liquid or Sticky 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	560
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+2+3	
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. Dark Blue Liquid (TM-SLF 18-3434)
2. Dark Blue Liquid (TM-SLF 22-3434)
3. Yellow Liquid (TM-SLF 29-3421-2)

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

SFW23600465



SGS authenticate the photo on original report only

*** End of Report ***

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