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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 : Photochromic Dye #16 Yellow
Color : Yellow
Style / Item No. : UV-OP 2016
Material Composition : Organic Pigment
Sample Submitted By : New Prismatic Enterprise Co., Ltd.
Sample Receiving Date : Mar 10, 2020
Testing Period : Mar 10, 2020 ~ Mar 16, 2020

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


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 I: Dry, brittle, powder-like or pliable 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	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 (Cr)		0.0121	0.01	--
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	
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
Tetra-butyl tin (TeBT)		n.d.	0.135
Diphenyl tin (DPhT)		n.d.	0.135
Di-n-octyl tin (DOT)		n.d.	0.135

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Test Item(s)	Soluble Organic Tin Result(s) (mg/kg)		MDL (mg/kg)
	1		
Triphenyl tin (TPHT)	n.d.		0.135

Sample Description :

- Yellow Organic 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, Commission Directive (EU) 2018/725 is for toy material.

Sample Photo

KE/2020/30448



SGS authenticate the photo on original report only

*** End of Report ***

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