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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 MC Pigment 43C Black-bf
Color : Black
Style / Item No. : TM-PDF 43-3141
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) | 0.0146 | | 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 :

- Black 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/2020/30450



SGS authenticate the photo on original report only

*** End of Report ***

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