

Test Report

1 April, 2019

Type of Product : Artline Permanent Markers

<Object:Ink>

- EK-100,110,120,130 (Black)(Blue)(Red)(Green)
- EK-30,50,70,90 (Black)(Blue)(Red)(Green)(Brown)(Orange)(Purple)(Yellow)(Pink) (Light Blue)
- EK-700 (Black)(Blue)(Red)(Green)(Brown)(Orange)(Purple)(Yellow)(Pink) (Light Blue)(Yellow Green)

Artline Markers INK

- ESK-20 (Black)(Blue)(Red)(Green)(Brown)(Orange)(Purple)(Yellow)(Pink) (Light blue)
- ESK-20-30, ESK-20-60 (Black)(Blue)(Red)(Green)(Brown)(Orange)
- ESK-3 (Black)(Blue)(Red)(Green)

Test Item	Colour	Result (unit mg/kg)	Minimum limit of determination	Testing Date
a) Lead and lead compounds	All colours	Not detected	2	21 February, 2019 - 27 February, 2019
b) Cadmium and cadmium compounds	All colours	Not detected	2	21 February, 2019 - 27 February, 2019
c) Mercury and mercury compounds	All colours	Not detected	2	21 February, 2019 - 27 February, 2019
d) Hexavalent chromium compounds	All colours	Not detected	8	21 February, 2019 - 27 February, 2019
e) PBBs/PBDEs	All colours	Not detected	5	21 February, 2019 - 27 February, 2019
f) DBP	All colours	Not detected	50	21 February, 2019 - 27 February, 2019
g) BBP	All colours	Not detected	50	21 February, 2019 - 27 February, 2019
h) DEHP	All colours	Not detected	50	21 February, 2019 - 27 February, 2019
i) DIBP	All colours	Not detected	50	21 February, 2019 - 27 February, 2019

(Unit; mg/kg=ppm)

Analysis company : SGS-CSTC [Approved Signatory : Dora Hu]

Pretreatment:

- a),b) IEC 62321-5:2013
- c) IEC 62321-4:2013+AMD1:2017
- d) IEC 62321-7-2:2017
- e) IEC 62321-6:2015
- f),g),h),i) IEC 62321-8:2017

Analysis method:

- a),b) ICP-OES
- c) ICP-OES
- d) UV-Vis
- e) GC-MS
- f),g),h),i) GC-MS



note) • A sample completely dissolved in preprocessing operation and performed quantitative analysis. (Lead,Cadmium,Mercury)
“Not detected” means under the minimum limit of determination.

Shachihata Inc



Yukihiro Shibagaki Quality Assurance Gr.