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Test Report

3 July, 2023

Type of Product : Artline Permanent Markers

<Object:Ink>

- EK-100,110,120,130,107,109,107R,109R (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,ESK-20-500 (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	19 June, 2023 - 20 June, 2023
b) Cadmium and cadmium compounds	All colours	Not detected	2	19 June, 2023 - 20 June, 2023
c) Mercury and mercury compounds	All colours	Not detected	2	19 June, 2023 - 20 June, 2023
d) Hexavalent chromium compounds	All colours	Not detected	8	19 June, 2023 - 20 June, 2023
e) PBBs/PBDEs	All colours	Not detected	100	19 June, 2023 - 20 June, 2023
f) DBP	All colours	Not detected	100	19 June, 2023 - 20 June, 2023
g) BBP	All colours	Not detected	100	19 June, 2023 - 20 June, 2023
h) DEHP	All colours	Not detected	100	19 June, 2023 - 20 June, 2023
i) DIBP	All colours	Not detected	100	19 June, 2023 - 20 June, 2023

(Unit; mg/kg=ppm)

Analysis company : Shachihata Inc. Analysis Center

Pretreatment:

- a),b) IEC 62321-5
- c) IEC 62321-4
- d) IEC 62321-7-2
- e) IEC 62321-6
- f),g),h),i) IEC 62321-8

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


Masayoshi Ozeki Quality Assurance Gr.