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Test Report

2 April, 2018

Type of Product : Artline Permanent Markers

 $<\!Object: Ink\!> \qquad \bullet EK-100, 110, 120, 130 \quad (Black)(Blue)(Red)(Green)$

 $\bullet EK-30,\!50,\!70,\!90 \quad (Black)(Blue)(Red)(Green)(Brown)(Orange)(Purple)(Yellow)(Pink) \\ (Light Blue)(Purple)(Purple)(Purple)(Pink)(Pink) \\ (Pink)(Pin$

 $\bullet EK-700 \quad (Black)(Blue)(Red)(Green)(Brown)(Orange)(Purple)(Yellow)(Pink) \\ (Light Blue)(Yellow Green) \\$

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)

 \cdot ESK-3 (Black)(Blue)(Red)(Green)

Test Item	Colour	Result	Minimum limit	Testing Date
		(unit mg/kg)	of determination	
a) Lead and lead compounds	All colours	Not detected	2	23 January, 2018 - 2 February, 2018
b) Cadmium and cadmium compounds	All colours	Not detected	2	23 January, 2018 - 2 February, 2018
c) Mercury and mercury compounds	All colours	Not detected	2	23 January, 2018 - 2 February, 2018
d) Hexavalent chromium compounds	All colours	Not detected	8	23 January, 2018 - 2 February, 2018
e) PBBs/PBDEs	All colours	Not detected	5	23 January, 2018 - 2 February, 2018
f) DBP	All colours	Not detected	50	23 January, 2018 - 2 February, 2018
g) BBP	All colours	Not detected	50	23 January, 2018 - 2 February, 2018
h) DEHP	All colours	Not detected	50	23 January, 2018 - 2 February, 2018
i) DIBP	All colours	Not detected	50	23 January, 2018 - 2 February, 2018

(Unit; mg/kg=ppm)

Analysis company : SGS-CSTC [Approved Signatory : Helen Liu]

Pretreatment:		Analysis method:	
a),b)	IEC 62321-5:2013	a),b)	ICP-OES
c)	IEC 62321-4:2013+AMD1:2017	c)	ICP-OES
d)	IEC 62321-7-2:2017	d)	UV-Vis
e)	IEC 62321-6:2015	e)	GC-MS
f),g),h),i)	IEC 62321-8:2017	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

Yukihiko Shibagaki Quality Assurance Gr