

Test Report

1 April, 2019

Type of Product : Artline WHITEBOARD MARKER

<Object:Ink> •EK-157, EK-159 (Black)(Blue)(Red)(Green)
 •EK-157R, EK-159R (Black)(Blue)(Red)(Green)
 Artline REFILL INK FOR WHITEBOARD MARKER
 •ESK-50A (Black)(Blue)(Red)(Green)
 •ESK-50A-30 (Black)(Blue)(Red)(Green)
 •ESK-50A-60 (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 | 1 February, 2016 - 6 February, 2016 |
| b) Cadmium and cadmium compounds | All colours | Not detected | 2 | 1 February, 2016 - 6 February, 2016 |
| c) Mercury and mercury compounds | All colours | Not detected | 2 | 1 February, 2016 - 6 February, 2016 |
| d) Hexavalent chromium compounds | All colours | Not detected | 2 | 1 February, 2016 - 6 February, 2016 |
| e) PBBs/PBDEs | All colours | Not detected | 5 | 1 February, 2016 - 6 February, 2016 |
| f) DBP | All colours | Not detected | 30 | 1 February, 2016 - 6 February, 2016 |
| g) BBP | All colours | Not detected | 30 | 1 February, 2016 - 6 February, 2016 |
| h) DEHP | All colours | Not detected | 30 | 1 February, 2016 - 6 February, 2016 |
| i) DIBP | All colours | Not detected | 30 | 1 February, 2016 - 6 February, 2016 |

(Unit; mg/kg=ppm)

Analysis company : SGS-CSTC [Approved Signatory : Marry Ma]

Pretreatment:

a),b) IEC 62321-5:2013
 c) IEC 62321-4:2013
 d) IEC 62321:2008
 e) IEC 62321:2008
 f),g),h),i) EN 14372:2004

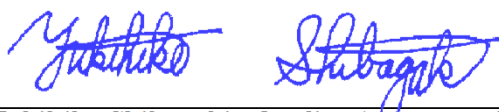
Analysis method:

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.
 •Green ink contain Pigment (bromine compound), but brominated flame retardants(PBBs,PBDEs) are not contained.
 Please note that test result by X-ray fluorescence spectrometer shows total bromine value.

Shachihata Inc



Yukihiko Shibagaki Quality Assurance Gr.