



PERMANENT MARKER

Product main features

BIC® Marking® Onyx® 1891 permanent marker is BIC's answer for heavy duty marking. Designed to instill confidence in the industrial consumer with its bold ink, broad chisel tip, and durable metal barrel, this permanent marker comes in three bold alcohol-based inks with an 18 month shelf life.

Aluminum barrel

Airtight to prevent ink evaporation
100.5 mm length
26.0 mm diameter

Polyester filler

9.5 g of ink



Nose cone



Polyester chisel point

Line width: 5.0 x 10.0 mm



Alcohol-based ink

Permanent



Polypropylene Cap

Audible snap to verify seal

Process and Controls

- Full automatic assembly
- Automatic injection molding process
- Incoming inspection on raw materials and sourced components
- Internal components: ink
- External components: cap, barrel
- Products audited prior to shipment
- Numerous visual and functional aspects tested prior to release

Laboratory controls

- Ink, filler, and nib physico-chemical measures
- Mileage, cap off time, drop test, oven leakage, dry abrasion, water resistance, solvents resistance, resistance to washing on clothes, lightfastness, ink drying time on supports
- Age tests at 23°C, 48°C, & 55°C, evaporation test at 23°C & 48°C

Production controls

- Vacuum testing for leakage
- Write tests and visual inspections
- Ink, cap, barrel, nib are checked for presence during assembly
- AQL standards used in approval of all components

Norms and regulations compliance

Product

- Ink assessed by an external toxicologist (ASTM D-4236)
- Heavy Metal content tested by an external laboratory (EN71-3: 1995, 16 CFR 1303, REACH – ANNEX XVII-entry n°23 and entry n°63)
- Cap compliant with safety cap standard (ISO 11540 / BS 7272-1)
- End plug compliant with safety end-plug standard (BS 7272-2)

Packaging

- Packaging complies with European directive (94/62/EC) relating to packaging and packaging waste
- Local packaging Eco-packaging: the volume, weight and materials used are optimized

Environment and social responsibility

Environment

- PVC free product
- Packaging compliant with packaging & packaging waste European directives: 94/62/EC TBC

Social responsibility

- Made in Germany
- BIC Group Code of Conduct based on ILO conventions
- Self assessment process with corrective action plan

Logistics Data

Pen

- Length: 153.7 mm
- Diameter: 26.0 mm
- Weight: 36.0 g

Packaging

- Box of 6, single color: black, blue, red, green