# Technical Data Sheet

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## 101-I0
## HD Retractable Pen



Technical Data Sheet Applicable To:

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| 101-I0*-C**-PA01 | HD Retractable Pen Standard Ink With Clip (All Colours) |
| 101-I0*-C**-PA02 | HD Retractable Pen Standard Ink No Clip (All Colours) |
| 101-I0*-C**-PA03 | HD Retractable Pen Standard Ink No Clip (All Colours) |

Industry Usage:
Retractable metal detectable and X-ray visible pens. Manufactured using our food contact approved detectable polymer. Specially designed to be extremely durable and shatter proof – minimising the risk of foreign body contamination in your processing environment.

Features and Benefits:

- Metal Detectable & X-Ray Visible
- Manufactured from EU and FDA food contact approved detectable polymer
- Shatter proof and virtually unbreakable
- Retractable pen

## Material Information:

- Length: 135.60mm (5.33″)
- Pen Thickness: 10.74mm (0.42″)
- Pen Thickness with clip: 18.81mm (0.74″)
- Carrier polymer: PP
- Addition Rate: 100%
- Heat stability: 280°c (536°f)
- Light fastness: 7-8 ISO 4892 (Blue Wool Scale)
- Weather Stability: 4-5 ISO 4892 (ISO 105-A002)
- Heavy Metals: NO
- Dairylide: NO
- Additive: YES

## Compliance Information:

The above is manufactured using pigments which are in accordance with: -

- European Resolution AP (89) 1
- Recommendation IX of the BfR for colouring plastics
- EN71-3 Toy regulation
- EU regulation EU No 2019/1381 amending Regulation EU No 1935/2004
- Is based on a polymer carrier that is compliant with: -
- EU regulation EU No 2020/1245 amending and correcting Regulation (EU) No 10/2011
- EU regulation EU No 2019/1381 amending Regulation EU No 1935/2004
- Has been produced according to Regulation 2023/2006/EC on good manufacturing practice for materials and articles intended to come into contact with food, applicable to plastic raw materials.

This compliance statement is based on information supplied by the polymer and pigment manufacturers, migration testing according to Regulation 10/2011, migration modelling and quality control systems in place at Detectamet.

REACH – No substances of very high concern (SVHC) above the 0.1% weight (w/w) threshold limit are present in the materials.

Regulations and Standards

We confirm that the above-mentioned products are suitable for use in contact with all food types and are in conformity with the applicable requirements of the following regulations and standards:

- Regulation (EC) no. 1935/2004 on Materials and Articles intended to come into contact with food.
- Commission Regulation (EU) No 10/2011 on Plastic materials intended to come into contact with food including it's updates Regulation 1282/2011 and Regulation 1183/2012.
- Regulation (EC) No. 2023/2006 on Good Manufacturing Practice for materials and articles intended to come into contact with food.
- Council of Europe Resolution AP 89/1 on the use of Colorants in Plastic Materials coming into contact with food.
- US FDA 21 CFR 177.1520 (Olefin polymers) with colorants and additives cleared for use through listing in 178.3297 (Colorants for polymers), 178/2010 (antioxidants and/or stabilisers for polymers, or other respective parts of the FDA regulations)

Migration test data obtained under short term-repeat use test condition (6dm2/kg food) has demonstrated that levels of overall migration and specific migration of additives from these products will not exceed the legal limits with all food types.

| Test Simulants | Food Types | Testing Condition |
|---|---|---|
| A-C, D1, D2 of Regulation No. 10/2011 for Plastic Materials and Articles in contact with food. | All dry, aqueous, acidic, alcoholic and fatty foods | 2 hours at 70c, Repeat use. Test OM3 of regulation 10/2011 |

Dual-use food additives may be present but any migration into food will be minimal. This compliance statement is based on information supplier by the polymer and pigment manufacturers, migration testing according to Regulation 10/2011, migration modelling and quality control systems in place at Detectamet.

General Information:
Maximum use temperature: 100°c (212°f)
Maximum wash temperature: 121°c (249.8°f)
Maximum use temperature: Do not store at deep freeze temperatures prior to use.

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