

## PRODUKTINFORMATIONEN

## Product Specifications

| January 2020



### Product Description:

This metal detectable & x-ray visible Marker Pen Holder is designed specifically for use in the food industry, where minimising the risk of foreign body contamination is of the highest priority.

The Marker Pen Holder is manufactured using our flagship XDETECT plastic compound - optimised for metal and x-ray detection in the food and pharmaceutical industries. All materials used in the construction of our Marker Pen Holders feature extensive food contact approvals including EU & FDA compliance.

The Marker Pen Holder will compliment any or our Drywipe Markers. Drywipe pens are best stored horizontally as this prevents the tips from drying out. These marker pen holders are ideal for keeping you white board accessories together and close to hand, they are supplied with four pre-drilled holes, alternatively you could use double sided tape or magnetic tape.

### Product Advantages:

- ✓ Detectable by in-line metal detection systems & x-ray inspection systems
- ✓ Incorporates antibacterial technology to protect against pathogenic germs and moulds
- ✓ Strong, durable & shatter resistant
- ✓ Compliant with EU & FDA food contact legislation, including mandatory EU migration test standards
- ✓ Can be used as part of HACCP and BRC procedures
- ✓ Displays due diligence in the prevention of foreign body contamination

## PRODUKTINFORMATIONEN

<b>Product Code:</b>	8920002-B
<b>Pack Size:</b>	1
<b>Pack Weight:</b>	0.01 Kg
<b>Product Colour:</b>	Blue Only
<b>Product Dimensions:</b>	150mm x 22mm x 120mm
<b>Housing Material:</b>	XDETECT [Polypropylene Co-Polymer]

### Food Contact Status (EU)

Hereby we declare that the material XDETECT is manufactured in line with the relevant requirements of 2023/2006/EC on good manufacturing practice (GMP) for materials and articles intended to come into contact with food.

The raw materials used in the manufacturing process of the above mentioned materials (XDETECT) can be considered suitable for food contact applications in terms of compliance with European regulations. The raw materials used meet the relevant requirements of EU Framework Regulation 1935/2004 on materials and articles intended to come into contact with food.

All monomers, starting substances and additives used to manufacture these grades are listed in Commission Regulation (EU) No. 10 (2011) on plastic materials and articles intended to come into contact with food. Applicable restrictions on monomers, additives etc. (SML, QM) are available on request. The finished articles are required to meet the Overall Migration Limit (OML) of 10 mg/dm(sq) or 60 mg/kg food.

XDETECT 2.0 is compliant with Directive 1895/2005/EC on the restriction of use of certain epoxy derivatives (BADGE, BFDGE, NOGE), since the latter substances are not intentionally used in the manufacturing process of XDETECT 2.0.

The Detectable Products hereby declare that articles manufactured from XDETECT are, according to EU regulations, authorised to come into direct contact with all types of foodstuffs at a maximum temperature of 40°C for a maximum time period of one hour.

### Migration Testing

The following overall migration results for XDETECT were obtained using a UKAS accredited laboratory, with overall migration simulants and conditions as detailed in EU Regulation No 10/2011 as amended, on plastic materials and articles intended to come into contact with food.

Sample: PP-C-2013/393  
 Test conditions: Simulants A, B and 95%v/v ethanol: 10 days at 40°C. Iso-octane: 2 days at 20°C

Method	EN-1186-3 Migration into 10% v/v Ethanol (Simulant A)	EN-1186-3 Migration into 3% w/v Acetic Acid (Simulant B)	EN-1186-14§ Migration into Iso- octane (Substitute test)	EN-1186-14§ Migration into 95% Ethanol (Substitute test)
Replicate #1	0.2 mg/dm <sup>2</sup>	0.5 mg/dm <sup>2</sup>	19.4 mg/dm <sup>2</sup>	0.8 mg/dm <sup>2</sup>
Replicate #2	0.3 mg/dm <sup>2</sup>	0.5 mg/dm <sup>2</sup>	21.0 mg/dm <sup>2</sup>	0.9 mg/dm <sup>2</sup>
Replicate #3	0.0 mg/dm <sup>2</sup>	0.3 mg/dm <sup>2</sup>	20.8 mg/dm <sup>2</sup>	0.6 mg/dm <sup>2</sup>
<b>Mean Result</b>	<b>0.2 mg/dm<sup>2</sup></b>	<b>0.4 mg/dm<sup>2</sup></b>	<b>20.4 mg/dm<sup>2</sup></b>	<b>0.8 mg/dm<sup>2</sup></b>
<b>EU Limit</b>	<b>10.0 mg/dm<sup>2</sup></b>	<b>10.0 mg/dm<sup>2</sup></b>	<b>#20.0 mg/dm<sup>2</sup></b>	<b>10.0 mg/dm<sup>2</sup></b>
<b>Tolerance</b>			<b>#6.0 mg/dm<sup>2</sup></b>	

## PRODUKTINFORMATIONEN

**#Limit and tolerance are quoted after the application of a fatty food reduction factor of 2 as quoted in EU Regulation 10/2011**

To summarise the overall migration test results, the PP-C-2013/393 complies with the overall migration requirements given in EU Regulation 10/2011, as amended, with regards to use with all non-fatty foods, aqueous foods and fatty foods that require a reduction factor of 2 (or greater), as given in EU regulation 10/2011, as amended.

**Food Contact Status (FDA)**

The polypropylene base resin used in XDETECT meets the FDA (Food and Drug Administration) requirements contained in the Code of Federal Regulations – latest revision (1/4-2011) - in 21 CFR 177.1520 (a) (3) (i) , (b) and (c) (3.1a).

At the same time this base resin grade meets the FDA criteria in 21 CFR 177.1520 for food contact applications, excluding cooking, listed under conditions of use C through H in 21 CFR 176.170 (c), Table 2., and can be used in contact with all food types as listed in 21 CFR 176.170 (c), Table 1. Also the mineral additives and the pigments used are GRAS (Generally Recognized As Safe) or are FDA cleared under specific FDA citations.

**Metal & X-Ray Detectability**

The Marker Pen Holders are made using XDETECT, an electromagnetically detectable and x-ray visible plastic compound. The detectability of this material will vary based upon the inspection systems being used and their calibration. The detectability of the product and its individual parts will vary based upon, but not limited to:

- Product Orientation
- Product Type (Wet / Dry / Frozen / Powder / Liquid ETC)
- Calibration Levels
- Aperture Dimensions

Niebling recommend that all our products be thoroughly tested on your inspection systems by a trained and certified professional. It may the case that your equipment may need to be recalibrated in order to reliably detect this product. Such a professional should be available by contacting the manufacturer of your inspection system.

---

**DISCLAIMER**

The information provided in this product specification sheet is based on our experience and knowledge to date and we believe it to be true and reliable. This information is intended as a guide for your use of our products, the use of which is entirely at your own discretion and risk. We, Niebling Technische Bürsten GmbH, cannot guarantee favourable results and assume no liability in connection with the use of our products.