

## Mallets With Detectable Heads | MAL\*0P



### Mallets

These detectable plastic mallets feature a head manufactured from blue metal detectable UHMW-Pe (Ultra High Molecular Weight Polyethylene), this unique detectable plastic has a high impact strength, good sliding properties and excellent wear resistance. With the food industry in mind, the mallet head is designed not to fracture or splinter and is made

from our strongest detectable plastic material. Use of a detectable material shows all due diligence in preventing foreign body contamination. Detectable UHMW-Pe is approved for direct food contact. The handle of the mallet is manufactured from white non-detectable HDPE (High Density Polyethylene), which is a food safe material.

### Mallet Advantages

- ✓ Detectable by in-line metal detection systems
- ✓ Highly visible blue head colour for easy visual identification
- ✓ UHMW-Pe head material is designed not to fracture or splinter
- ✓ Ambidextrous & ergonomic handle design
- ✓ Highly robust construction with strong food safe materials
- ✓ Compliant with EU & FDA food contact legislation
- ✓ Can be used as part of HACCP and BRC procedures
- ✓ Displays due diligence in the prevention of foreign body contamination

## Product and Packaging Information

40mm Ø Mallet	MAL40P	Head Length	88mm
Weight	0.25kg	Head Size	40mm Ø
50mm Ø Mallet	MAL50P	Head Length	114mm
Weight	0.40kg	Head Size	50mm Ø
Pack Size	1	Detectability	Metal Detectable Heads
Handle Colour	White	Handle Material	HDPE
Head Colour	Blue	Head Material	UHMW-Pe
Handle Length	300mm	Country Of Origin	Britain
Finishing	Textured For Grip	Commodity Code	39269097

## Safety Certificates / Approvals

FDA Approved	BRCGS Compliant	Made In Britain
EU Compliant	ISO 9001:2015	



## Food Contact Status (EU)

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The monomers used for the manufacturing of the **mallet heads** is Detectable Ultra High Molecular Weight Polyethylene and are listed in the EU Directive 2002/72/EC. This grade complies with the relevant requirements (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004 on materials and articles intended to come into contact with food, commission Regulation (EU) No 10/2011 and the new edition of the German “Bedarfsgegenstandeverordnung” of December 23, 1997 without restrictions.

The additives used are listed in the incomplete list of additives of the EU Directive 2002/72/EC or in the recommendations III “Polyethylene” of BfR 2/4 (Bundesinstitut für Riskobewertung).

Restrictions exist for:

Iron	SML = 48mg/kg
Copper	SML = 5mg/kg

The new Directive for the Good Manufacturing Practice 2023/2006/EC is part of the framework legislation 1935/2004/EC to ensure a high standard of production quality and documentation. BST Detectable UHMW-Pe is intended to be used for food contact applications and is produced according to the requirements of the GMO directive.

Confirmation that the plastic material (HDPE) used to manufacture the **mallet handles** meet the legal requirements. This grade complies with the relevant requirements of:

Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004 on materials and articles intended to come into contact with food. Commission Regulation (EU) No 10/2011, (EU) 321/2011, (EU) 1282/2011, (EU) 1183/2012, (EU) 202/2014, (EU) 2015/174, (EU) 2016/1416, (EU) 2017/752, (EU) 2018/79, (EU) 2018/213, (EU) 2018/831, (EU) 2019/37, (EU) 2019/988, (EU) 2019/1338 and (EU) 2020/1245 respectively, related to Plastic Materials and Articles intended to come into contact with foodstuffs.

Commission Regulation (EC) No 2023/2006 of 22 December 2006 on good manufacturing practice for materials and articles to come into contact with food (GMP) as amended.

## Food Contact Status (FDA)

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BST Detectable Ultra High Molecular Weight Polyethylene used to manufacture the **mallet heads** complies with the Code of Federal Regulations Title 21, s 177.1520 “Olefin Polymers” of the Food and Drug Administration (FDA) of April 1, 2008. Any additives that may be present, comply with appropriate, specific FDA Regulations.

The HDPE used for the **mallet handles** meet the FDA (Food and Drug Administration) requirements contained in the Code of Federal Regulations in 21 CFR 177.1520 (c) 3.2a. All adjuvants used in the manufacture of this resin are cleared for use in 21 CFR 170-189 by specific citation, generally recognized as safe (GRAS), prior sanctioned or under a specific Food Contact Notification (FCN). No further restrictions apply to the finished polymer.

## Metal Detectability

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These mallet heads are manufactured using UHMW-Pe containing an evenly dispersed metal detectable additive. The metal detectability of this product will vary based on, but not limited to:

- Calibration Levels
- Product Type (E.g. Wet, Dry, Frozen, Liquid)
- Aperture Dimensions
- Orientation

Orientation is a highly influential factor for the metal detectability of a contaminant that is non spherical, i.e. it will be easier to detect the contaminant when passing in one orientation compared to another - this is known as the orientation effect.

For this reason BST recommend that all our products be thoroughly tested on your metal detection systems by a trained and certified professional. It may be the case that your equipment needs to be re-calibrated in order to reliably detect this product. Such a professional should be available by contacting the manufacturer of your metal detection system.

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, BS Teasdale & Son Ltd, cannot guarantee favourable results and assume no liability in connection with the use of our products. © 2024 BS Teasdale & Son Ltd. All Content, Data & Images are owned by BS Teasdale & Son Ltd and are protected by international copyright law.

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BS Teasdale & Son Ltd. Unit 7, Delta Court, Sky Business Park, Doncaster, South Yorkshire, DN9 3GN

**Tel:** +44(0)1302 775208 **Email:** sales@bst-detectable.com **Web:** www.bst-detectable.com