

BST DETECTABLE SILICONE EXTRUSIONS

METAL DETECTABLE FOOD GRADE SILICONE EXTRUSIONS



Product Specifications

Revised December 2014

Metal detectable silicone rubber extrusions are designed to be detected as a contaminant during the manufacturing process, addressing the concerns of rubber sealing particles from machinery contaminating food production lines. Typical applications for this product range include lid seals, door/hatch seals, as well as bespoke applications within food processing plant / machinery.

Metal detectable silicone is highly resistant to degradation from chemical and environmental factors, and is suitable for use in a range of demanding environments. It is also resistant to ozone, oxidation, UV light, corona discharges, cosmic radiation, ionising radiation and general weathering.

BST Detectable Products keep stock of popular extrusion profiles, with almost any bespoke profile available upon request subject to a small part tooling charge. All our detectable silicone extrusions are approved for food contact according to FDA regulation 177.2600 and the EU framework regulation 1935/2004.

Product Code Prefix: PR2ES

Stocked Profiles: Round 6mm, Round 8mm, Square 4mm, Square 5mm, A-Section, Box Section

Product Colour: Blue

Pack Size: 1 x 25 Metre Coil

Product Advantages:

- ✓ Detectable by conventional metal detection systems
- ✓ Can be used as part of HACCP procedures
- ✓ FDA / EU Food Contact Approved Material
- ✓ Wide operating temperature range
- ✓ Blue colour for easy visual identification
- ✓ Diverse range of engineering applications
- ✓ Excellent overall weathering resistance
- ✓ Displays due diligence to auditors



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Mechanical Properties

Hardness:	67 Shore A	[ASTM D2240]
Tensile Strength:	9.0 MPa	[BS ISO 37]
Elongation on Failure:	340%	[BS ISO 37]
Tear Strength:	15.7 N/mm	[BS ISO 34-1 Method C]
Compression Set:	14.1%	[BS 903 PT A6 Type B] (25% 24 Hrs @ 150°C)

Product Materials: Silicone rubber combined with magnetic stainless steel pigment

Typical Applications: Lid Seals, door Seals, general seals & gaskets used in hygiene sensitive food, drink and pharmaceutical processing plant / machinery.

Temperature Range: -60°C to 200°C

Food Contact Compliance

This grade of silicone is tested to and is in compliance with the American Food and Drugs Administration (FDA) 21 CFR 177-2600 and Directive EC 1935/2004.

TSE / BSE Compliance

We confirm that this silicone rubber is not derived from animal origin and for the manufacture of the above mentioned products no intermediates and / or auxiliary agents of animal origin are used.

Detectability

Detectable Silicone contains an evenly dispersed metal detectable additive, making it detectable by correctly calibrated metal detection systems.

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 may need to be recalibrated in order to reliably detect this product. Such a professional should be available by contacting the manufacturer of your metal detection 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, BS Teasdale & Son Ltd cannot guarantee favourable results and assume no liability in connection with the use of our products.

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