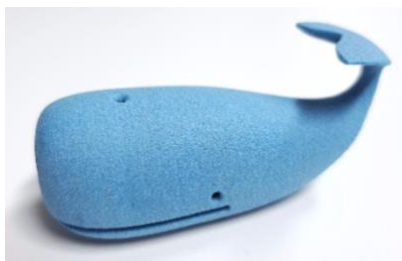




OCEANZ DETECT

Datasheet for PA12 metal detect parts approved for food contact applications

Oceanz DETECT complies with the EU regulatory requirements of the food processing industry:



- EC 1935/2004
- EU 10/2011
- EC 2023/2006

Oceanz DETECT can be detected by metal detectors and X-ray scanners in a production line, as it contains metal. The material has been treated with a food contact compliant blue colorant, which results in 3D printed parts with a durable blue colour *through-and-through*.

Laser-sintered parts made from Oceanz DETECT possess excellent material properties, such as a high strength and stiffness as well as a good chemical resistance and excellent long-term behavior. Typical applications are extrusion nozzles, grippers, moulds and machine parts for direct food processing as well as indirect food processing, e.g. food packaging industry.

Oceanz DETECT orders are processed in our ISO 9001 environment and will be polished. Vapor polish is available on request. Each order will be provided with a Declaration of Conformity.

Test conditions	Application	Contact conditions
EU 10/2011 OM3	All types of food	All food contact conditions involving hot filling and/or heating up to 100°C for 15 minutes or 70°C for 2 hours which is not followed by long-term storage at room temperature or in cold rooms.

Part properties	
Colour	Blue
Minimum wall thickness	1.5 mm
Max. product size	335 x 335 x 603 mm
Tensile strength XY / Z	48 / 42 MPa
Strain at break XY / Z	18 / 4 %
Max. operating temperature	100°C

Please note that all mentioned mechanical properties are optimum values according to the manufacturer. Due to the layer by layer production process and the specific design of each individual product values may differ. ***If specific properties and/or dimensions are critical, always contact us so we can inform you how to obtain required specifications!***

All information in this data sheet is based on appropriate testing further details of which are available on request and is stated to the best of our knowledge and belief at the time of publication. It is presented apart from contractual obligations and does not constitute any guarantee or warranty express or implied of properties or of process or application possibilities in individual cases. The data are subject to change without notice as part of our continuous development and improvement processes.

Visit Oceanz

Maxwellstraat 21, 6716 BX EDE
T: +31 (0) 318 769 077
M: info@oceanz.eu
W: www.oceanz.eu

The content of this material datasheet may be subject to copyright restrictions. Quoted results are compiled from Oceanz test data, suppliers source data, and may contain data values from other material specific sources.

Revision date: February 2023