



OCEANZ FOOD GRADE – PA12

Datasheet for PA12 printed parts approved for food contact applications



In order for plastics parts to be used for food contact applications, they must be compliant to the relevant regulations and be approved for contact with food substances. Oceanz FOOD GRADE PA12 complies with the EU regulatory requirements of the food processing industry:

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

Laser-sintered parts made from Oceanz PA12 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, molds and machine parts for direct food processing as well as indirect food processing, e.g. food packaging industry.

Oceanz FOOD GRADE PA12 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 EXCEPT alcoholic foods	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

Color	White
Minimum wall thickness	1.5 mm (to withstand polishing)
Max. product size	665 x 356 x 545 mm
Tensile strength XY / Z	48 / 40 MPa
Strain at break XY / Z	18 / 8 %
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!***

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Revision date: July 2026