



OCEANZ FOOD GRADE – PA12 WHITE

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, moulds and machine parts for direct food processing as well as indirect food processing, e.g. food packaging industry.

All Oceanz Food grade PA12 orders are polished and are processed in our ISO 9001 environment. Each order will be provided with a declaration of conformity.

Specifications	Single use	Repeated use
Max. time and temperature while in contact with food	1) Long-term storage at room temperature 2) 2 hours at 70 °C 3) 15 minutes at 100 °C	1) Long-term storage at room temperature 2) 30 min at 70 °C 3) 5 minutes at 100 °C
Types of food intended to come in contact with the products	All foods EXCEPT alcoholic foods	
Maximum surface to volume (S/V) contact ratio	6 dm ² /kg	

Part properties	
Minimum wall thickness	1.0 mm
Max. product size	665 x 356 x 545 mm
Tensile strength XY / Z	48 / 42 MPa
Strain at break XY / Z	18 / 4 %
Max. operating temperature	100°C

** If your specific application is not stated on the datasheet, please contact us for more information on the possibilities.*

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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Visit Oceanz

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