

ACCORDING TO EU FOOD INDUSTRY REGULATIONS:
EC 1935/2004, EU 10/2011, AND EC 2023/2006

PRODUCT:

Food Grade PA12 (blue)

Food Grade PA12 BLUE is a durable material with the distinct blue color associated with food-safe plastics. It is made from a PA12 powder that meets food contact compliance standards and is infused with a compliant blue colorant, ensuring consistent coloration throughout the 3D printed parts.

Common uses include extrusion nozzles, grippers, molds, and machine components for both direct and indirect food processing, such as in the food packaging sector. Manufactured in an ISO 9001-certified factory, parts are polished, with vapor polishing available upon request. Sculptheo can provide an annual declaration of conformity upon request.

Test conditions: EU 10/2011 OM3

Application: All types of food

Contact conditions: 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.



The raw materials used **meet the requirements outlined in the following sections of FDA CFR 21:**

- §175.300(b)(3)(xxxii): Resinous and polymeric coatings
- §177.1500(a)(9): Nylon resins, subject to the restrictions specified in §177.1500(b)(9)(a) and (b)

⚠ Please note: These raw materials are not FDA-approved for use with alcoholic food products.

PART PROPERTIES	VALUE
Minimum wall thickness	1.5 mm (to withstand polishing)
Max. product size	310 x 310 x 590 mm
Tensile strength XY / Z	46 / 40 MPa
Strain at break XY / Z	30 / 8 %
Max. operating temperature	100°C (for direct food contact applications)

Please be aware that the mechanical properties listed represent the manufacturer’s optimal values. Due to the layer-by-layer production method and the unique design of each product, these values may vary. If specific properties or dimensions are crucial, we strongly recommend reaching out to us for guidance on achieving the desired specifications!

The information provided in this data sheet is based on appropriate testing, details of which can be made available upon request. It reflects our knowledge and understanding at the time of publication. However, it is offered without any contractual obligations and does not guarantee or warrant specific properties, processes, or applications in individual cases, whether expressed or implied. This data is subject to change without prior notice as part of our continuous development and improvement efforts. Additionally, the content of this material data sheet may be protected by copyright laws. The cited results are drawn from Sculptheo test data, supplier materials, and may also include values from other material-specific sources.

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