



PA 11 food grade

Alternative Designations

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Key Features

Food contact compliant • Enhanced elongation at break • Ductile • Impact resistant

Description

This material produces parts with blue colour. It consists of a food compliant PA 11 powder. It is FDA-approved for contact with food, making it a safe material to use in the production of nozzles, moulds, grippers and machine parts for both direct and indirect food processing. Additionally, PA 11 is highly resistant to staining and odors, making it an ideal material for food-related applications.

Mechanical Properties

Tensile modulus	1800 MPa
Tensile strength	52 MPa
Elongation at break	35 – 50%
Flexural strength	70 MPa
Flexural modulus	1.8 GPa
Hardness (Shore D)	80

Thermal Properties

Melting temperature (20°C/min)	202°C
Heat deflection temperature (1.80 MPa)	54°C
Heat deflection temperature (0.45 MPa)	185°C

Physical Properties

Density	1.05 g/cm ³
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Reference

Datasheets provided by Xometry contain materials sourced through trusted OEMs, material distributors, and databases. Please visit Materialdatacenter.com for further information on this material.