



PA 11 food grade

Alternative Designations

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.

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Mechanical Properties

Tensile modulus1800 MPaTensile strength52 MPaElongation at break35 - 50%Flexural strength70 MPaFlexural modulus1.8 GPa

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

Hardness (Shore D)

| 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 <u>Materialdatacenter.com</u> for further information on this material.