



Data Sheet

Nylon 12 full-colour / CB PA 12

Alternative Designations

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Key Features

Chemical resistance • Durability • Heat resistant • Dimensional stability

Description

Nylon 12 Full Color (MJF) is a highly versatile material for 3D printing, known for its superior mechanical properties, dimensional stability, and resistance to impact and chemicals. It stands out with its ability to be printed in full CMYK color, making it ideal for producing functional prototypes with high dimensional accuracy. This material finds applications in diverse fields such as medicine, geodesy, and art, offering durability and density for end-use parts.

Mechanical Properties

Tensile modulus	1600 – 1700 MPa
Tensile strength	46 MPa
Elongation at break	14 – 20%
Flexural strength	142 MPa

Thermal Properties

Melting temperature (20°C/min)	189°C
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Physical Properties

Density	1.03 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](https://www.materialdatacenter.com) for further information on this material.