Selective Laser Sintering (SLS)

Nylon 12 (PA 12) glass-filled

Key Features

Stiffness • Strength • Dimensional stability • Wear resistance

Applications

Prototyping • End-use parts • Automotive • Electronics • Consumer goods

Product Description

Nylon 12 GF powder offers enhanced stiffness and thermal stability, making it ideal for demanding industrial environments where structural rigidity and thermal resistance are crucial. This glass-filled polyamide 12 powder, also known as PA 3200 GF, produces parts with high rigidity and good elongation at break. Additionally, its special wear resistance properties make it suitable for applications requiring increased abrasion resistance, making it a perfect choice for stiff functional prototypes or end-use parts in challenging conditions.

Properties

Tensile modulus	2,800 MPa
Tensile strength	38 MPa
Elongation at break	4%
Flexural strength	56 MPa
Flexural modulus	2,400 MPa
Heat deflection temperature (0.45 MPa)	170°C
Heat deflection temperature (1.80 MPa)	113°C
Softening temperature	175°C
Density	1.22 g/cm ³
Hardness	80D
Flame retardancy (thickness of the sample tested = 3.00 mm)	UL 94 HB

Reference

For more detailed source information, please consult the original document linked <u>here</u>. We encourage users to verify the data's relevance and suitability for their specific needs.



