Carbon DLS™

CE 221 (Cyanatester)

Key Features

Strength • Heat resistance • Stiffness • Thermal stability

Applications

End-use parts • Aerospace • Automotive • Electronics

Product Description

CE 221, utilized in DLS 3D printing, offers exceptional chemical and temperature resistance, making it ideal for components exposed to corrosive fluids under high pressures and temperatures. This cyanate ester material, akin to glass-filled nylon, boasts stiffness and heat resistance, catering to industrial applications, particularly fluid routing.

Properties

Tensile modulus	3,900 MPa
Tensile strength	85 MPa
Elongation at break	3%
Flexural stress (at 5% strain)	130 MPa
Flexural modulus	3,800 MPa
Heat deflection temperature (0.45 MPa)	230°C
Heat deflection temperature (1.80 MPa)	200°C
Density	1.2 g/cm^3
Hardness	92D
Thermal conductivity (ASTM C518)	0.17 W/m-k

Reference

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