Xometry

Datasheet

PC PBT-FDM

Alternative Designations

Polycarbonate-Polybutylene Terephthalate.

Key Features

Tough · Dimensionally stable · Suitable for applications that require corrosion resistance

Description

This is a type of engineering plastic that offers a high strength-to-weight ratio and is resistant to many chemicals. It is often used in the automotive and aerospace industries. This material has high toughness, dimensional stability and good resistance to heat. Furthermore, it has good impact resistance and stiffness. It is used in gear cases, automotive bumpers, and other applications that require chemical and corrosion resistance.

Xometry

Datasheet

Mechanical Properties

Tensile modulus	1986 MPa
Tensile strength	41.8 Mpa
Elongation at break	4.6%
Flexural strength	64.4 MPa
Flexural modulus	1.93 GPa
Hardness (Shore D)	109

Thermal Properties

Melting temperature (20°C/min)	223°C
Heat deflection temperature (1.80 MPa)	109°C
Softening temperature	139°C

Physical Properties

Density	1.2 g/cm^3