



PC ISO (Polycarbonate ISO 10993 USP Class VI)

Alternative Designations

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Key Features

Strong • Resistant to heat • Bio and medical compatible

Description

PC ISO is also known for its strength and durability, making it an ideal material for use in medical devices that need to withstand high levels of wear and tear. It is classified as a USP Class VI medical grade plastic, which means that it has passed all of the necessary safety tests required by the FDA. It is a strong, heat-resistant material. It is biocompatible resulting in its broad use in food and drug packaging.

Mechanical Properties

Tensile modulus	2000 MPa
Tensile strength	57 MPa
Elongation at break	4%
Flexural strength	90 MPa
Flexural modulus	2.14 GPa
Hardness (Shore D)	70

Thermal Properties

Heat deflection temperature (1.80 MPa)	127°C
Heat deflection temperature (0.45 MPa)	133°C
Softening temperature	139°C

Physical Properties

Density	1.2 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 for further information on this material.