

Polycarbonate-ISO

Fused Deposition Modelling
(FDM)



Biocompatible, rigid, stable material

Polycarbonate-ISO (PC-ISO) is a biocompatible industrial thermoplastic which is compliant with ISO 10993 USP Class VI and can be gamma or EtO sterilised in its raw state. PC-ISO is an ideal material for food and pharmaceutical packaging and medical device manufacture, due to its strength and medical compatibility. PC-ISO gives you parts for concept modelling, functional prototyping and end-use applications.

Why choose PC-ISO?

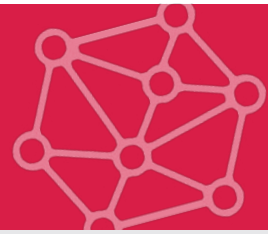
- High tensile and flexural strength
- Good impact resistance
- High heat resistance
- Transparent to radio frequencies
- Biocompatible (ISO 10993: USP Class VI)
- Gamma and ethylene oxide sterilisable

Applications

- Conceptual modelling
- Functional prototyping
- End-use parts
- Food and drug packaging
- Medical device manufacturing

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General properties	Value (XY Axis)	Test method
Colour	White Translucent Natural	Visual
Part density	1.20 g/cm ³	ASTM D792

Thermal properties	Value (XY Axis)	Test method
Heat deflection temperature – annealed (0.45Mpa)	133° C	ASTM D648
Heat deflection temperature – annealed (1.8Mpa)	127° C	ASTM D648

Mechanical properties	Value (XY Axis)	Test method
Tensile strength (ultimate)	57 MPa	ASTM D638
Tensile modulus	2000 MPa	ASTM D638
Tensile elongation	4%	ASTM D638
Flexural strength	90 MPa	ASTM D790
Flexural strain at break	No break	ASTM D790
Flexural modulus	2100 MPa	ASTM D790
Impact strength – Izod (notched)	86 J/m	ASTM D256

Other	Value (XY Axis)	Test method
Flammability classification	HB	UL94

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Have a question? Call our friendly team on

+44 (0) 800 304 7196

Specifications are subject to change without notice.

The technical data indicated above is an average value of the test result of a part created under proper management and appropriate conditions.
The value is for reference and is not guaranteed.