

MedEco ICB

Technical DataSheet | Supplied by BIOVOX

MedEco ICB by BIOVOX is a highly resistant, recyclable, biodegradable, bio-based, medical-grade thermoplastic. It is used for wellplates, surgical instruments & intravenous access systems, medical & laboratory devices, and packaging. It exhibits high surface hardness, rigidity, strength, heat resistance and transparency. It provides very good shape filling and easy processing at low temperatures, saving energy. It has low carbon footprint with great price-performance ratio. It is capable of EO/Gamma/X-Ray/SCC sterilization. MedEco ICB is suitable for transparent and translucent injection molded components.

Product Type	Unspecified Thermoplastic > Unspecified Thermoplastic, Bio-based
Product Status	COMMERCIAL
Applications/ Recommended for	Packaging Healthcare / Medical > Surgery instruments Healthcare / Medical > Medical goods Injection molding - thermoplastics
Biodegradable	Yes
Bio Based	Yes
Bio Based Content (%)	99
Labels/Agency Rating	ISO 10993 ISO 13485 EN ISO 13432
Key Features	Biodegradable Energy Saving Hardness, High Heat Resistance, High Processability, Good Recyclable Rigidity, High Sterilization, Ethylene Oxide Sterilization, Radiation Strength, High Transparency, High

MedEco ICB Properties

Physical	Value & Unit	Test Condition	Test Method
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Bio Carbon Content > 99 %

Melt Mass-Flow Rate (MFR or MFI = Melt Flow Index or MI = Melt Index)	30 g/10 min	At 190°C, 2.16 kg	ISO 1133-A
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Density 1.24 g/cm³

Linear Mold Shrinkage 0.45 - 0.8 %

Thermal	Value & Unit	Test Condition	Test Method
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Melting Point	175 °C		ISO 3146
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Deflection Temperature at 0.46 MPa (66 psi)	60 °C		ISO 75-1
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Mechanical	Value & Unit	Test Condition	Test Method
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Tensile Strength	65 N/mm ²		ISO 527-1/1A
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Impact Strength, Notched Izod	2.5 kJ/m ²	At 23°C	ISO 180
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Modulus of Elasticity	3450 N/mm ²		ISO 527-1/1A
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Elongation at Break	5.5 %		ISO 527-1/1A
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MedEco ICB Processing Guidelines

Injection molding	Value & Unit	Test Condition	Test Method
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Hopper Temperature	40 °C		
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Feeding Zone Temperature 170 °C

Nozzle Temperature 185 °C

Compression Zone Temperature 180 °C

Tool Temperature 30 - 40 °C

Drying Temperature 60 °C

Drying Time > 6 hr

Measuring Zone Temperature 190 °C

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