Universal Selector™ *by SpecialChem*

MedEco ICB C1

Technical DataSheet | **Supplied by BIOVOX**

MedEco ICB C1 by BIOVOX is a bio-based, medical grade thermoplastic. It is recommended for highly transparent injection molded components.

It exhibits high- rigidity, strength, stiffness and surface hardness.
It offers very good shape filling and easy processing at low temperatures, saving energy.
It is recyclable, biodegradable and resilient with the smallest carbon footprint.
MedEco ICB C1 is suitable for wellplates, surgical instruments, and intravenous access systems.

Product Type	Unspecified Thermoplastic > Unspecified Thermoplastic, Bio-based
Product Status	COMMERCIAL
Applications/ Recommended for	Healthcare / Medical > Medical goods Healthcare / Medical > Surgery instruments Injection molding - thermoplastics
Biodegradable	Yes
Bio Based	Yes
Bio Based Content (%)	100
Labels/Agency Rating	EN ISO 13432
Key Features	Biodegradable Energy Saving Hardness, High Processability, Good Recyclable Stiffness, High Strength, High Transparency, High

MedEco ICB C1 Properties

Physical	Value & Unit	Test Condition	Test Method
Melt Mass-Flow Rate (MFR or MFI = Melt Flow Index or MI = Melt Index)	32 g/10 min	At 190°C, 2.16 kg	ISO 1133-A

Density	1.24 g/cm^3		
Linear Mold Shrinkage	0.45 - 0.8 %		
Bio Carbon Content	100 %		

Thermal	Value & Unit	Test Condition	Test Method
Melting Point	175 °C		ISO 3146
Deflection Temperature at 0.46 MPa (66 psi)	60 °C		ISO 75-1

Mechanical	Value & Unit	Test Condition	Test Method
Tensile Strength	65 N/mm^2		ISO 527-1/1A
Impact Strength, Notched Izod	2.5 kJ/m^2	At 23°C	ISO 180
Modulus of Elasticity	3450 N/mm^2		ISO 527-1/1A
Elongation at Break	2 %		ISO 527-1/1A

MedEco ICB C1 Processing Guidelines

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

Nozzle Temperature	185 °C
Compression Zone Temperature	180 °C
Measuring Zone Temperature	190 °C
Tool Temperature	30 - 40 °C
Drying Temperature	60 °C
Drying Time	> 6 hr

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