MedEco IGH

Technical DataSheet | Supplied by BIOVOX

MedEco IGH by BIOVOX is a biodegradable, bio-based, medical-grade thermoplastic. It is designed for applications in IVD enclosures, instrument handles, equipment housings, medical & laboratory devices, and packaging.
It provides good workability and recycling options and exhibits high rigidity, strength, heat-resistance and surface hardness.
It is grip-friendly and capable of EO/Gamma/X-Ray/SCC sterilization.
It is suitable for high temperatures and for dimensionally stable injection molded components with a particularly non-slip surface.
MedEco IGH has a very low carbon footprint and great price-performance ratio.

Product Type	Unspecified Thermoplastic > Unspecified Thermoplastic, Bio-based
Product Status	COMMERCIAL
Applications/ Recommended for	Packaging 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 Dimensional stability, Good Energy Saving Hardness, High Heat Resistance, Good Recyclable Rigidity, High Slip-free Sterilization, Ethylene Oxide Sterilization, Radiation Strength, High

MedEco IGH Properties

Physical	Value & Unit	Test Condition	Test Method

Bio Carbon Content	> 98 %		
Density	1.26 g/cm^3		
Melt Mass-Flow Rate (MFR or MFI = Melt Flow Index or MI = Melt Index)	35 g/10 min	At 190°C, 2.16 kg	ISO 1133-A
Linear Mold Shrinkage	0.45 - 0.8 %		

Mechanical	Value & Unit	Test Condition	Test Method
Tensile Strength	65 N/mm^2		ISO 527-1/1A
Elongation at Break	6.5 %		ISO 527-1/1A
Modulus of Elasticity	4300 N/mm^2		ISO 527-1/1A
Impact Strength, Notched Izod	2.5 kJ/m^2	At 23°C	ISO 180

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

MedEco IGH 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
Tool Temperature	30 - 40 °C
Drying Temperature	60 °C
Drying Time	> 6 hr
Measuring Zone Temperature	190 °C

Help us improve the Universal Selector

You can't find what you are looking for? Please report missing products / suppliers, point out errors, or simply tell us how we could make the Universal Selector better.

Send a Feedback