

MedEco IPI C1

Technical Datasheet

Product description

MedEco IPI C1 is a 95% bio-based HDPE material for injection molding. It offers excellent processability, high flowability, and outstanding robustness. Ideal for demanding applications such as closure caps and functional medical technology components.

Material properties

All values given are indicative. The data was measured on test objects and may vary due to product-specific geometry and process characteristics.

Properties	Method	Condition	Value	Unit
Density	ISO 1183		0.96	g/cm ³
MFR	ISO 1133-A	190 °C/ 2.16 kg	24	g/10min
Tensile strength	ISO 527-1/1A		27	N/mm ²
Elongation at break	ISO 527-1/1A		150	%
Young's modulus	ISO 527-1/1A		1100	N/mm ²
Charpy impact strength	ISO 179/1eU	23 °C	> 99	kJ/m ²
Charpy notched impact strength	ISO 179/1eA	23 °C	3.3	kJ/m ²
HDT-B	ISO 75-1	0.45 N/mm ²	70	°C
Water absorption	ISO 62	23 °C, H ₂ O, 24 h	0.02	%

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Storage and drying conditions

Store the material in an airtight container in a dry, cool place. Protect it from heat, direct sunlight, sources of ignition, and moisture. Do not store it outdoors. Use the material within six months of delivery. Dry the material for at least two hours at 80 °C. Process dried MedEco IPI C1 promptly or store the material briefly in closed containers.

Packaging

The product is available in 25-kg bags or big bags. Samples are supplied in 25-kg bags. It is available worldwide.

Processing instructions

Parameter	min	max	Initial value	Unit
Periphery temperature	15	60	25	°C
Feed zone temperature	160	200	180	°C
Compression zone temperature	180	230	200	°C
Metering zone temperature	180	250	210	°C
Nozzle temperature	180	250	210	°C
Mold temperature	20	70	30	°C
Melt temperature	200	250	200	°C
Residence time in the screw	0	5	3	min



Questions?

Ask your contact or email be-green@biovox.systems

Want to learn more?

You can find additional documents, such as the safety data sheet or sustainability information, on the MedEco IPI C1 product page. Simply scan the QR code or [->>click here](#).