MedEco ICB C2

Technical Data Sheet

MedEco ICB C2 is a 100% bio-based PLA-based material for injection molding. It has high stiffness and surface hardness. ICB C2 is characterized by its crystal-clear, color-neutral transparency and is used in surgical instruments, drug delivery devices, and well plates.

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		1.23	g/cm³
MFR	ISO 1133-A	190°C/ 2.16 kg	40	g/10min
Melting temperature	ISO 11357		175	°C
Tensile strength	ISO 527-1/1A		65	N/mm²
Elongation at break	ISO 527-1/1A		4.5	%
Young's modulus	ISO 527-1/1A		3450	N/mm²
Charpy Impact Strength unnotched	ISO 179/1eU	23°C	20	kJ/m²
Charpy Impact Strength notched	ISO 179/1eA	23°C	2.4	kJ/m²
HDT-B	ISO 75-1	0.45 N/mm²	56	°C
Water absorption	ISO 62	23°C, H_2O, 24 h	0.6	%

Processing instructions

Pre-drying: at least 6 h at 50°C

Parameter	min	max	Initial value	Unit
Periphery Temperature	15	50	25	°C
Feed Zone Temperature	140	190	170	°C
Compression Zone Temperature	180	210	180	°C
Metering Zone Temperature	180	220	190	°C
Nozzle Temperature	180	220	190	°C
Mold Temperature	10	55	40	°C
Melt Temperature	190	210	195	°C

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