

# MedEco IPI C5

## Technical Data Sheet

MedEco IPI C5 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 <sup>3</sup>
MFI	ISO 1133-A	190°C/ 2.16 kg	24	g/10min
Young's modulus	ISO 527-1/1A		1,100	N/mm <sup>2</sup>
Tensile strength	ISO 527-1/1A		27	N/mm <sup>2</sup>
Elongation at break	ISO 527-1/1A		150	%
HDT-B	ISO 75-1	0.45 N/mm <sup>2</sup>	70	°C
Water absorption	ISO 62	23°C, H <sub>2</sub> O, 24 h	0.02	%

## Processing Instructions

Parameter	Value			Unit
	min	max	nominal	
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



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