

MedEco IPI C1

Technical Data Sheet

MedEco IPI C1 is a 95% bio-based HDPE material for conventional injection molding and is lightweight with high elongation at break. It is semi-transparent and is used in the field of surgical instruments and sterile packaging.

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
MFI	ISO 1133-A	190°C/ 2.16 kg	20	g/10min
Tensile strength	ISO 527-1/1A		26	N/mm ²
Elongation at break	ISO 527-1/1A		12	%
Young's modulus	ISO 527-1/1A		1,100	N/mm ²
HDT-B	ISO 75-1	0.45 N/mm ²	70	°C
Longitudinal shrinking	ISO 294-4		2.20	%
Transverse shrinking	ISO 294-4		1.57	%
Water absorption	ISO 62		0.05	%

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	0	60	30	°C
Melt Temperature	200	250	200	°C



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