MedEco IPI C3

Technical Datasheet

Product description

MedEco IPI C3 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
MFR	ISO 1133-A	190 °C/ 2.16 kg	7.5	g/10min
Tensile strength	ISO 527-1/1A		26	N/mm^2
Tensile stress at break	ISO 527-1/1A		13	N/mm^2
Elongation at break	ISO 527-1/1A		30	%
Young's modulus	ISO 527-1/1A		900	N/mm^2
Charpy impact strength	ISO 179/1eU	23 °C	> 98	kJ/m^2
Charpy notched impact strength	ISO 179/1eA	23 °C	4.4	kJ/m^2
HDT-B	ISO 75-1	0,45 N/mm^2	75	°C
Water absorption	ISO 62	23 °C, H_2O, 24 h	0.12	%

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Registergericht: Amtsgericht Darmstadt, HRB 101494

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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 C3 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	0	60	30	°C
Melt temperature	200	250	200	°C
Shrinkage range	2	5		%

Questions?

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

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