MedEco XCH

Technical Datasheet

Product description

MedEco XCH is a 100% bio-based, PLA-based material for extrusion that offers good stiffness and deep-drawability. It exhibits excellent heat resistance in its crystalline state and is used in blisters, pharmaceutical packaging, and rigid films

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		1.25	g/cm³
MFR	ISO 1133-A	190 °C/ 2,16 kg	2.2	g/10min
Melting temperature	ISO 11357		172	°C
Tensile strength	ISO 527-3		65	N/mm²
Elongation at break	ISO 527-3		4	%
Young's modulus	ISO 527-3		3450	N/mm²
HDT-B	ISO 75-1	0,45 N/mm²	105	°C
Water absorption	ISO 62	23 °C, H_2O, 24 h	0.6	%

BIOVOX GmbH | Bunsenstraße 15 | 64293 Darmstadt
be-green@biovox.systems | +49 6151 7869330
Geschäftsführer: Dr.-Ing. Julian Lotz, Dr.-Ing. Vinzenz Nienhaus, Carmen Rommel
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 (5–35 °C). Protect it from heat, ignition sources, and moisture. Do not store it outdoors. Use the material within six months of delivery. Dry the material for at least six hours at 50 °C to achieve a moisture content of less than 0.07 % (700 ppm). Avoid exposure to air after drying. Use it immediately or store the material only briefly in sealed 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	50	25	°C
Feed zone temperature	140	190	170	°C
Compression zone temperature	180	210	180	°C
Metering zone temperature	180	220	200	°C
Nozzle temperature	180	220	210	°C
Melt temperature	190	210	210	°C
Residence time in the screw	0	5	3	min

Questions?

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

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