Technical Data Sheet

Altech®

ALBIS

ALTECH PS-HI B 1000/100

(Last update: 22.03.2023)

M COM

Base Polymer	Polystyrene, impact
Special Features	injection moulding grade
Market Segment	electrical and electronic,various
Application Area	electrical components,interior,various
Typical Applications	housings,functional components,various

Pre-Drying Conditions	in a dry air (dessiccant) dryer 60-80 °C for 2-3 h in an air circulating dryer 60-80 °C for 2-3 h dependant on moisture content
Processing Injection Moulding	melt temperature 180-260 °C mould temperature 10-70 °C
Storage	dry, protected from light

Properties	Value	Dimension	Test Norm
Mechanical Properties			
Flexural Modulus	1900	MPa	ISO 178
Flexural Stress (3.5% Strain)	39	MPa	ISO 178
Tensile Modulus	1800	MPa	ISO 527
Tensile Stress at Yield	21	MPa	ISO 527
Tensile Elongation at Yield	1.5	%	ISO 527
Tensile Elongation at Break	50	%	ISO 527
Impact Strength (Charpy, 23°C)	100	kJ/m²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	80	kJ/m²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	8	kJ/m²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	3	kJ/m²	ISO 179/1eA
Thermal Properties			
Vicat B50	90	°C	ISO 306
HDT / A (1,8 MPa)	70	°C	ISO 75-1/-2
Rheological Properties			
Melt Index (MVR)	12	cm³/10min	ISO 1133
MVR temperature	200	°C	-
MVR load	5	kg	-
Shrinkage (24h)	0.3 - 0.6	%	ISO 294-4
Physical Properties			
Density	1050	kg/m³	ISO 1183

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Flammability

Flammability (1.5 mm)	HB	class	UL 94
Glow Wire (GWFI, 650 °C, 2.0mm)	passed	-	DIN EN 60695

Liability Exclusion

These are guide values and not a specification. The test values mentioned are representative values only and not binding minimum or maximum figures. These test values have been determined on standardised test specimens and can be affected by pigmentation, mould design and processing conditions.

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