

Technical Data Sheet



ALTECH PS-HI B 1000/100

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/m ²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	80	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	8	kJ/m ²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	3	kJ/m ²	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	cm ³ /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/m ³	ISO 1183
Flammability			
Flammability (1.5 mm)	HB	class	UL 94
Glow Wire (GWFI, 650°C, 2.0mm)	passed	-	DIN EN 60695