

Technical Data Sheet



ALTECH PS-HI A 1000/100

Base Polymer	Polystyrene, impact
Special Features	injection moulding grade
Market Segment	Lighting, packaging, various
Application Area	fixtures / fittings, various
Typical Applications	light switches, 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)	38	MPa	ISO 178
Tensile Modulus	1800	MPa	ISO 527
Tensile Stress at Yield	22	MPa	ISO 527
Tensile Elongation at Yield	2	%	ISO 527
Tensile Elongation at Break	35	%	ISO 527
Impact Strength (Charpy, 23°C)	100	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	9	kJ/m ²	ISO 179/1eA
Thermal Properties			
Vicat B50	92	°C	ISO 306
HDT / A (1,8 MPa)	70	°C	ISO 75-1/-2
Rheological Properties			
Melt Index (MVR)	10	cm ³ /10min	ISO 1133
MVR temperature	200	°C	-
MVR load	5	kg	-
Shrinkage (24h)	0.4 - 0.7	%	ISO 294-4
Physical Properties			
Density	1040	kg/m ³	ISO 1183