

Technical Data Sheet



ALTECH PC-HT A 1000/500

Base Polymer	High Heat Polycarbonate
Special Features	high heat stabilised
Market Segment	Automotive,Lighting
Typical Applications	housings,light switches

Pre-Drying Conditions	120 °C in a dry air (dessiccant) dryer for 2-3 h 130 °C in an air circulating dryer for 4-12 h dependant on moisture content max. moisture content <0,02 %
Processing Injection Moulding	melt temperature 320-340 °C mould temperature 100-130 °C
Storage	dry, protected from light

Properties	Value	Dimension	Test Norm
Mechanical Properties			
Tensile Modulus	2500	MPa	ISO 527
Tensile Stress at Yield	70	MPa	ISO 527
Tensile Elongation at Yield	7	%	ISO 527
Tensile Elongation at Break	55	%	ISO 527
Impact Strength (Charpy, 23°C)	no break	kJ/m ²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	no break	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	9	kJ/m ²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	8	kJ/m ²	ISO 179/1eA
Thermal Properties			
Vicat B50	166	°C	ISO 306
HDT / A (1,8 MPa)	148	°C	ISO 75-1/-2
Rheological Properties			
Melt Index (MVR)	17	cm ³ /10min	ISO 1133
MVR temperature	330	°C	-
MVR load	2.16	kg	-
Shrinkage (24h)	0.75 - 1.05	%	ISO 294-4
Physical Properties			
Density	1170	kg/m ³	ISO 1183