

Technical Data Sheet



ALTECH PA6 B 1000/170

Base Polymer	Polyamide 6
Colour	natural color
Special Features	fast solidifying,easy release (demoulding),heat stabilised,processing stabilised
Market Segment	Automotive,Machinery,building and construction,sport and leisure
Application Area	injection moulded parts,clothing / fasteners
Typical Applications	housings,functional components

Pre-Drying Conditions	80 °C in a dry air (dessiccant) dryer for 2-12 h dependant on moisture content max. moisture content <0,15 %
Processing Injection Moulding	melt temperature 250-270 °C mould temperature 60-100 °C
Storage	dry, protected from light

Properties	Value	Dimension	Test Norm
Mechanical Properties			
Flexural Modulus	2900	MPa	ISO 178
Flexural Stress (3.5% Strain)	98	MPa	ISO 178
Tensile Modulus	3400	MPa	ISO 527
Tensile Stress at Yield	90	MPa	ISO 527
Tensile Elongation at Yield	3.8	%	ISO 527
Tensile Elongation at Break	10	%	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)	5	kJ/m ²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	4	kJ/m ²	ISO 179/1eA
Thermal Properties			
HDT / A (1,8 MPa)	66	°C	ISO 75-1/-2
DSC (Melt Point)	220	°C	ISO 11357
Rheological Properties			
Shrinkage (lengthwise, 24h)	1 - 1.2	%	ISO 294-4
Shrinkage (lateral, 24h)	1.2 - 1.4	%	ISO 294-4
Physical Properties			
Density	1130	kg/m ³	ISO 1183