

Technical Data Sheet



ALTECH PA6 A 1000/320 UV

Base Polymer	Polyamide 6
Colour	white
Special Features	UV stabilised
Market Segment	Automotive, Machinery, electrical and electronic, building and construction, sport and leisure
Application Area	injection moulded parts, functional components, housings

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 Strength	110	MPa	ISO 178
Tensile Modulus	3300	MPa	ISO 527
Tensile Stress at Yield	85	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)	5	kJ/m ²	ISO 179/1eA
Thermal Properties			
Vicat B50	200	°C	ISO 306
HDT / A (1,8 MPa)	61	°C	ISO 75-1/-2
DSC (Melt Point)	220	°C	ISO 11357
Rheological Properties			
Shrinkage (lengthwise, 24h)	1.1 - 1.5	%	ISO 294-4
Shrinkage (lateral, 24h)	1 - 1.4	%	ISO 294-4
Physical Properties			
Density	1140	kg/m ³	ISO 1183