

Technical Data Sheet



ALTECH PA6 A 1000/199

Base Polymer	Polyamide 6
Colour	black,blue,grey,green,natural color,orange,red,white
Special Features	fast solidifying,easy release (demoulding),easy flow,heat stabilised
Market Segment	Automotive,electrical and electronic,sport and leisure
Application Area	injection moulded parts,electrical and electronic (E&E),sports equipment
Typical Applications	housings,handles,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 %
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Processing Injection Moulding	melt temperature 250-270 °C mould temperature 60-100 °C
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Storage	dry, protected from light
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Properties	dry/cond.	Dimension	Test Norm
Mechanical Properties			
Flexural Modulus	2800 / 900	MPa	ISO 178
Flexural Stress (3.5% Strain)	90 / 25	MPa	ISO 178
Tensile Modulus	3200 / 1150	MPa	ISO 527
Tensile Stress at Yield	85 / 50	MPa	ISO 527
Tensile Elongation at Yield	3.7 / 25	%	ISO 527
Tensile Elongation at Break	10 / 100	%	ISO 527
Impact Strength (Charpy, 23°C)	no break / 1000	kJ/m ²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	160 / -	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	5 / 20	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)	65 / *	°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 - 1.5	%	ISO 294-4
Physical Properties			
Density	1130 / -	kg/m ³	ISO 1183
Flammability			
Flammability (0.75 mm)	HB / *	class	UL 94
Yellow Card available	yes / *	-	-