

Technical Data Sheet



ALTECH PA6 A 1000/310 IM

Base Polymer	Polyamide 6
Colour	black,grey,natural color,white
Special Features	high impact modified,low temperature impact modified,heat stabilised,easy release (demoulding),good flow
Market Segment	Automotive,building and construction,Furniture
Application Area	injection moulded parts,exterior parts,interior decoration / finishing
Typical Applications	housings,different automotive powertrain parts,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	2000 / 600	MPa	ISO 178
Flexural Stress (3.5% Strain)	64 / -	MPa	ISO 178
Flexural Strength	- / 20	MPa	ISO 178
Tensile Modulus	2100 / 700	MPa	ISO 527
Tensile Stress at Yield	55 / 50	MPa	ISO 527
Tensile Elongation at Yield	4 / 25	%	ISO 527
Tensile Elongation at Break	37 / 80	%	ISO 527
Impact Strength (Charpy, 23°C)	no break / 1000	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)	40 / 125	kJ/m ²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	14 / -	kJ/m ²	ISO 179/1eA
Thermal Properties			
HDT / A (1,8 MPa)	60 / *	°C	ISO 75-1/-2
DSC (Melt Point)	220 / *	°C	ISO 11357
Rheological Properties			
Shrinkage (lengthwise, 24h)	1.3 - 1.7	%	ISO 294-4
Shrinkage (lateral, 24h)	1.4 - 1.8	%	ISO 294-4
Physical Properties			
Density	1090 / -	kg/m ³	ISO 1183

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Flammability

Flammability (1.5 mm)

HB / *

class

UL 94

Diagrams

Stress-Strain

