

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 %
Processing Injection Moulding	melt temperature 250-270 °C mould temperature 60-100 °C
Storage	dry, protected from light

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

