

Technical Data Sheet



ALTECH PA6 A 2030/109 GF30

Base Polymer	Polyamide 6
Filler/Additive System	30 % glass fibres
Colour	black,blue,brown,grey,natural color,red,orange,white,yellow,violet
Special Features	heat stabilised,easy release (demoulding),easy flow,processing stabilised,nucleated
Market Segment	Automotive,Machinery,building and construction
Application Area	injection moulded parts,exterior parts,interior decoration / finishing,engine and drive systems
Typical Applications	housings,different automotive powertrain parts,functional components,operating elements,handles,dowels
Approvals	GS93016,MS211-45A2

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 270-290 °C mould temperature 80-100 °C
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Storage	dry, protected from light
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Minimum Shelf Life	months >12
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Properties	dry/cond.	Dimension	Test Norm
Mechanical Properties			
Flexural Modulus	8000 / 4700	MPa	ISO 178
Flexural Strength	240 / 145	MPa	ISO 178
Tensile Modulus	9000 / 5600	MPa	ISO 527
Tensile Strength at Break	170 / 90	MPa	ISO 527
Tensile Elongation at Break	3 / 6	%	ISO 527
Impact Strength (Charpy, 23°C)	70 / 75	kJ/m²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	55 / -	kJ/m²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	10 / 19	kJ/m²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	7 / -	kJ/m²	ISO 179/1eA
Thermal Properties			
HDT / A (1,8 MPa)	210 / *	°C	ISO 75-1/-2
DSC (Melt Point)	220 / *	°C	ISO 11357
Rheological Properties			
Shrinkage (lengthwise, 24h)	0.2 - 0.4	%	ISO 294-4
Shrinkage (lateral, 24h)	0.6 - 0.8	%	ISO 294-4

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Physical Properties

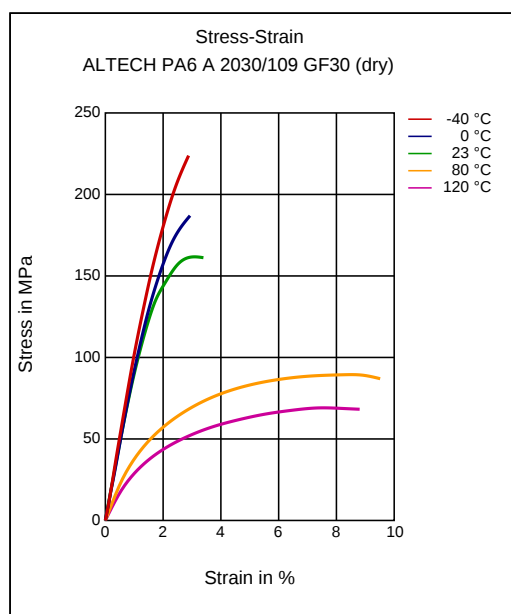
Density 1360 / - kg/m³ ISO 1183

Flammability

Flammability (0.75 mm) HB / * class UL 94
Yellow Card available yes / * - -

Diagrams

Stress-Strain



Stress-Strain

