

ALTECH PA6 A 2030/109 GF30

(Last update: 24.02.2025)

MOCOM

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 %
Processing Injection Moulding	melt temperature 270-290 °C mould temperature 80-100 °C
Storage	dry, protected from light
Minimum Shelf Life	months >12

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

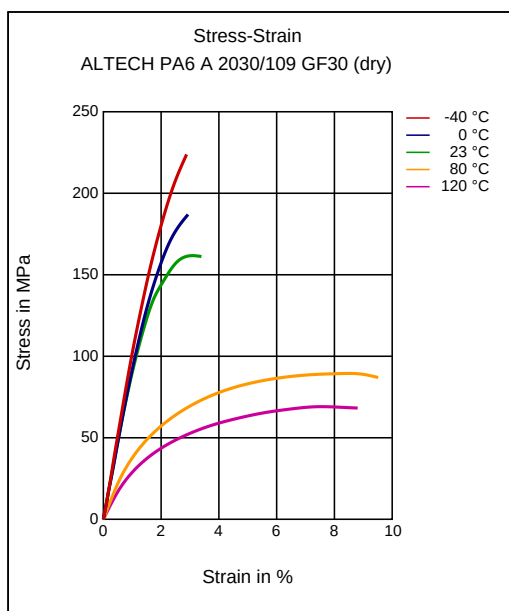
Density	1360 / -	kg/m ³	ISO 1183
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Flammability

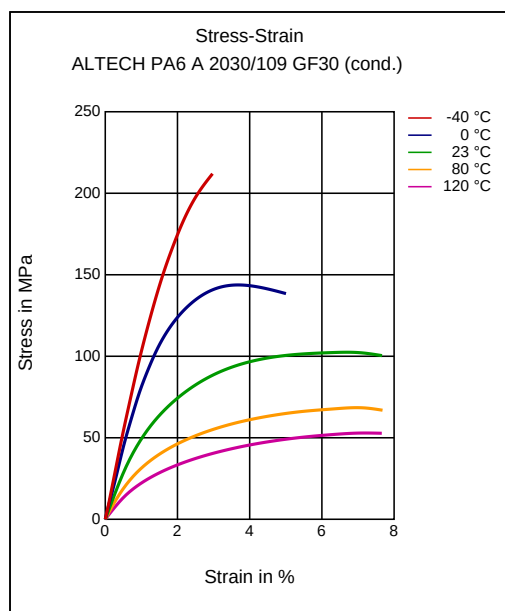
Flammability (0.75 mm)	HB / *	class	UL 94
Yellow Card available	yes / *	-	-

Diagrams

Stress-Strain



Stress-Strain



Liability Exclusion

These are guide values and not a specification. The test values mentioned are representative values only and not binding minimum or maximum figures. These test values have been determined on standardised test specimens and can be affected by pigmentation, mould design and processing conditions.

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- risk class III applications according to EU directive 93/42/EEC
- any bodily implant application for greater than 30 days
- any critical component in any medical device that supports or sustains human life.

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