Technical Data Sheet

Altech®

ALBIS

ALTECH PA6 A 2040/100 GF40

(Last update: 17.08.2023)

M COM

Base Polymer	Polyamide 6
Filler/Additive System	40 % glass fibres
Colour	natural color,black
Special Features	high heat stabilised,easy release (demoulding),easy flow,processing stabilised
Market Segment	Automotive,Machinery,electrical and electronic
Application Area	interior decoration / finishing,exterior parts,electrical components,injection moulded parts
Typical Applications	housings,functional components,operating elements

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

Properties	dry/cond.	Dimension	Test Norm
Mechanical Properties			
Flexural Modulus	11400 / 6900	MPa	ISO 178
Flexural Strength	290 / 180	MPa	ISO 178
Tensile Modulus	12500 / 7000	MPa	ISO 527
Tensile Strength at Break	190 / 115	MPa	ISO 527
Tensile Elongation at Break	3.4 / 5.7	%	ISO 527
Impact Strength (Charpy, 23°C)	85 / 100	kJ/m²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	70 / -	kJ/m²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	13 / 25	kJ/m²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	10 / -	kJ/m²	ISO 179/1eA
Thermal Properties			
HDT / A (1,8 MPa)	215 / *	°C	ISO 75-1/-2
DSC (Melt Point)	220 / *	°C	ISO 11357
Rheological Properties			
Shrinkage (lengthwise, 24h)	0.1 - 0.3	%	ISO 294-4
Shrinkage (lateral, 24h)	0.6 - 0.8	%	ISO 294-4
Physical Properties			
Density	1450 / -	kg/m³	ISO 1183

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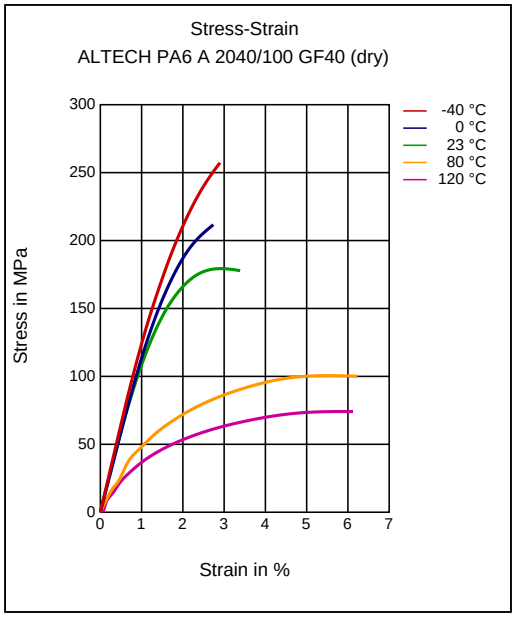
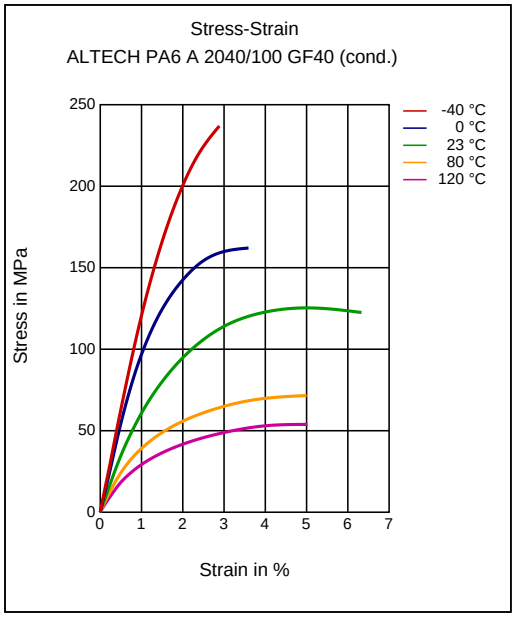
Diagrams

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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- any bodily implant application for greater than 30 days
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