



ALTECH PA6 A 2050/100 GF50

(Last update: 24.02.2025)



Base Polymer	Polyamide 6
Filler/Additive System	50 % glass fibres
Colour	black,natural color,greyscale
Special Features	heat stabilised,easy release (demoulding),injection moulding grade,nucleated,processing stabilised
Market Segment	Machinery,Automotive,electrical and electronic
Typical Applications	injection moulded parts,exterior parts,interior decoration / finishing,electrical 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 270-290 °C mould temperature 80-100 °C
Storage	dry, protected from light

Properties	dry/cond.	Dimension	Test Norm
Mechanical Properties			
Flexural Modulus	14300 / 8850	MPa	ISO 178
Flexural Strength	325 / 205	MPa	ISO 178
Tensile Modulus	15500 / 9700	MPa	ISO 527
Tensile Strength at Break	195 / 130	MPa	ISO 527
Tensile Elongation at Break	2.9 / 4.5	%	ISO 527
Impact Strength (Charpy, 23°C)	85 / 90	kJ/m ²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	85 / -	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	15 / 20	kJ/m ²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	11 / -	kJ/m ²	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)	0.2 - 0.4	%	ISO 294-4
Physical Properties			
Density	1550 / -	kg/m ³	ISO 1183

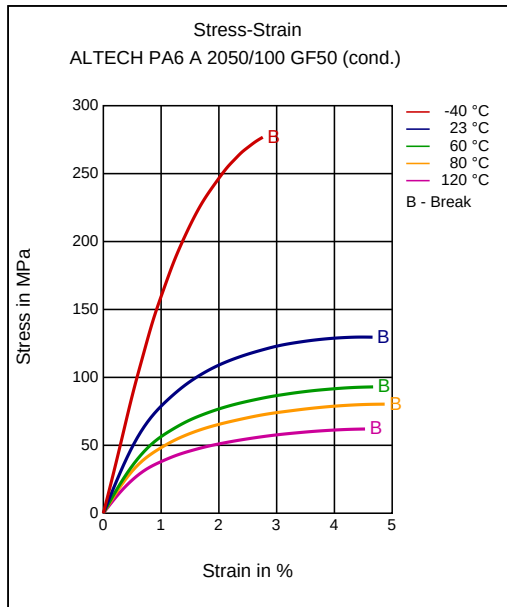
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MOCOM

Diagrams

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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