

ALTECH PA6 ECO 2025/509 GF25

(Last update: 27.03.2017)

Base Polymer	Polyamide 6
Filler/Additive System	25 % glass fibres
Special Features	high heat stabilised,easy release (demoulding),heat ageing stabilisation,high flow
Typical Applications	housings,various

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 Conditions	injection moulding melt temperature 270-290 °C injection moulding mould temperature 80-100 °C
Storage	dry, protected from light not above 30°C

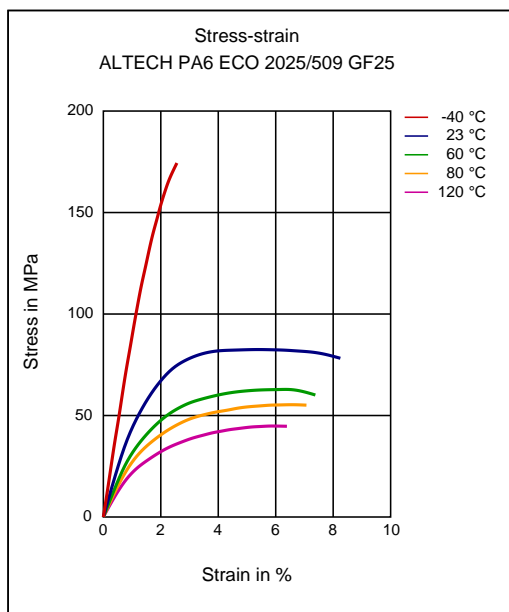
Properties	dry/cond.	Dimension	Test Norm
Mechanical Properties			
Flexural modulus	7000 / -	MPa	ISO 178
Flexural strength	210 / -	MPa	ISO 178
Tensile modulus	8000 / 4000	MPa	ISO 527-1/-2
Tensile stress at yield	- / 95	MPa	ISO 527-1/-2
Tensile strength at break	115 / -	MPa	ISO 527-1/-2
Tensile elongation at yield	- / 6	%	ISO 527-1/-2
Tensile elongation at break	3 / -	%	ISO 527-1/-2
Charpy notched impact 1eA	5.5 / 15	kJ/m ²	ISO 179/1eA
Charpy impact strength 1eU	50 / 80	kJ/m ²	ISO 179/1eU
Thermal Properties			
Vicat B50	211 / *	°C	ISO 306
HDT / A (1,8 MPa)	198 / *	°C	ISO 75-1/-2
DSC (Melt Point)	220 / *	°C	ISO 11357
Rheological Properties			
Relative Viscosity (m-Cresol,c = 10 g/l)	2.6	-	ISO 307
Physical Properties			
Density	1310 / -	kg/m ³	ISO 1183
Flammability			
Flammability, 0.75 mm	HB / *	class	UL 94
Yellow Card available	yes / *	-	-

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Diagrams

Stress-strain



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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