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Technical Data Sheet

Altech®

ALBIS

ALTECH PA6 A 2050/500 GF50

M COM

Base Polymer	Polyamide 6
Filler/Additive System	50 % glass fibres
Colour	black,natural color
Special Features	heat stabilised,easy release (demoulding),good flow
Market Segment	Automotive
Application Area	injection moulded parts,exterior parts,interior decoration / finishing
Typical Applications	functional components,pedals,different automotive powertrain parts

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	15700 / 10000	MPa	ISO 178
Flexural Strength	350 / 225	MPa	ISO 178
Tensile Modulus	16500 / 10400	MPa	ISO 527
Tensile Strength at Break	220 / 145	MPa	ISO 527
Tensile Elongation at Break	2.9 / 4.7	%	ISO 527
Impact Strength (Charpy, 23°C)	95 / 90	kJ/m²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	85 / -	kJ/m²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	15 / 20	kJ/m²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	12 / -	kJ/m²	ISO 179/1eA
Thermal Properties			
HDT / A (1,8 MPa)	219 / *	°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)	0.3 - 0.5	%	ISO 294-4
Physical Properties			
Density	1580 / -	kg/m³	ISO 1183