

Technical Data Sheet



ALTECH PA6 B 2030/500 GF30

Base Polymer	Polyamide 6
Filler/Additive System	30 % glass fibres
Colour	black
Special Features	glycol resistant, hot oil resistant, good chemical resistance, easy flow, easy release (demoulding), high heat stabilised
Market Segment	Automotive, building and construction, Machinery
Application Area	engine and drive systems, injection moulded parts, clothing / fasteners, exterior parts
Typical Applications	different automotive powertrain parts, oil pans / sumps, functional components, housings

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	Value	Dimension	Test Norm
Mechanical Properties			
Flexural Modulus	8200	MPa	ISO 178
Flexural Strength	200	MPa	ISO 178
Tensile Modulus	8500	MPa	ISO 527
Tensile Strength at Break	150	MPa	ISO 527
Tensile Elongation at Break	2.7	%	ISO 527
Impact Strength (Charpy, 23°C)	50	kJ/m ²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	40	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	8	kJ/m ²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	7	kJ/m ²	ISO 179/1eA
Thermal Properties			
HDT / A (1,8 MPa)	200	°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)	0.7 - 0.9	%	ISO 294-4
Physical Properties			
Density	1360	kg/m ³	ISO 1183