

Technical Data Sheet



ALTECH PA6 A 3030/100 GB30

Base Polymer	Polyamide 6
Filler/Additive System	30 % glass beads
Colour	black,grey,natural color
Special Features	processing stabilised,easy release (demoulding),nucleated,heat stabilised
Market Segment	building and construction,Automotive,sport and leisure
Application Area	gear wheels, roller bearings,sports equipment,electrical components,injection moulded parts
Typical Applications	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	dry/cond.	Dimension	Test Norm
Mechanical Properties			
Flexural Modulus	4000 / -	MPa	ISO 178
Flexural Strength	115 / -	MPa	ISO 178
Tensile Modulus	4100 / -	MPa	ISO 527
Tensile Strength at Break	70 / -	MPa	ISO 527
Tensile Elongation at Break	6 / -	%	ISO 527
Impact Strength (Charpy, 23°C)	30 / -	kJ/m ²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	20 / -	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	3 / -	kJ/m ²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	2.5 / -	kJ/m ²	ISO 179/1eA
Thermal Properties			
HDT / A (1,8 MPa)	70 / *	°C	ISO 75-1/-2
DSC (Melt Point)	220 / *	°C	ISO 11357
Physical Properties			
Density	1360 / -	kg/m ³	ISO 1183