

Technical Data Sheet



ALTECH PA6 A 3050/100 GB50

Base Polymer	Polyamide 6
Filler/Additive System	50 % glass beads
Colour	natural color,black
Special Features	low warpage,easy flow,easy release (demoulding),high heat stabilised
Market Segment	Automotive,Machinery
Application Area	injection moulded parts,interior decoration / finishing,exterior parts
Typical Applications	housings,handles,functional 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	5600 / -	MPa	ISO 178
Flexural Strength	135 / -	MPa	ISO 178
Tensile Modulus	5700 / -	MPa	ISO 527
Tensile Strength at Break	80 / -	MPa	ISO 527
Tensile Elongation at Break	5.3 / -	%	ISO 527
Impact Strength (Charpy, 23°C)	40 / -	kJ/m²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	27 / -	kJ/m²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	3.5 / -	kJ/m²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	2.5 / -	kJ/m²	ISO 179/1eA
Thermal Properties			
HDT / A (1,8 MPa)	106 / *	°C	ISO 75-1/-2
DSC (Melt Point)	220 / *	°C	ISO 11357
Rheological Properties			
Shrinkage (lengthwise, 24h)	0.9 - 1.1	%	ISO 294-4
Shrinkage (lateral, 24h)	0.8 - 1	%	ISO 294-4
Physical Properties			
Density	1560 / -	kg/m³	ISO 1183