

Technical Data Sheet



ALTECH PA6 A 2050/560 GF50

Base Polymer	Polyamide 6
Filler/Additive System	50 % glass fibres
Colour	natural color,black
Special Features	high heat stabilised,easy release (demoulding),easy flow,injection moulding grade
Market Segment	Automotive,electrical and electronic
Application Area	engine and drive systems,exterior parts,electrical components,interior decoration / finishing,injection moulded parts
Typical Applications	functional components,different automotive powertrain parts,air duct

Pre-Drying Conditions	80 °C in a dry air (dessiccant) dryer for 2-12 h dependant on moisture content max. moisture content <0,15 %
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Processing Injection Moulding	melt temperature 270-290 °C mould temperature 80-100 °C
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Storage	dry, protected from light
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Properties	dry/cond.	Dimension	Test Norm
Mechanical Properties			
Flexural Modulus	14500 / 9800	MPa	ISO 178
Flexural Strength	320 / 210	MPa	ISO 178
Tensile Modulus	16000 / 10000	MPa	ISO 527
Tensile Strength at Break	210 / 137	MPa	ISO 527
Tensile Elongation at Break	3 / 4.5	%	ISO 527
Impact Strength (Charpy, 23°C)	95 / 92	kJ/m²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	95 / -	kJ/m²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	16 / 23	kJ/m²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	12 / -	kJ/m²	ISO 179/1eA
Thermal Properties			
HDT / A (1,8 MPa)	216 / *	°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)	0.2 - 0.4	%	ISO 294-4
Physical Properties			
Density	1570 / -	kg/m³	ISO 1183