

Technical Data Sheet



ALTECH PA6 A 2010/100 GF10

Base Polymer	Polyamide 6
Filler/Additive System	10 % glass fibres
Colour	black,natural color
Special Features	heat stabilised,fast solidifying,easy release (demoulding),processing stabilised,nucleated
Market Segment	Automotive,building and construction
Application Area	injection moulded parts,functional components,interior decoration / finishing,exterior 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	3900 / 2100	MPa	ISO 178
Flexural Strength	145 / 70	MPa	ISO 178
Tensile Modulus	5000 / 2200	MPa	ISO 527
Tensile Strength at Break	100 / 60	MPa	ISO 527
Tensile Elongation at Break	2.5 / 15	%	ISO 527
Impact Strength (Charpy, 23°C)	32 / 100	kJ/m²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	32 / -	kJ/m²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	4.5 / 8	kJ/m²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	4.5 / -	kJ/m²	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)	0.3 - 0.5	%	ISO 294-4
Shrinkage (lateral, 24h)	0.7 - 0.9	%	ISO 294-4
Physical Properties			
Density	1200 / -	kg/m³	ISO 1183