

Technical Data Sheet



ALTECH PA6 A 2010/106 GF10

Base Polymer	Polyamide 6
Filler/Additive System	10 % glass fibres
Colour	black
Special Features	heat stabilised
Market Segment	Automotive
Application Area	injection moulded parts
Typical Applications	handles,bezels,housings,racking / shelving,interior decoration / finishing

Pre-Drying Conditions	in a dry air (dessiccant) dryer <80 °C 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	4300 / 2200	MPa	ISO 178
Flexural Stress (3.5% Strain)	- / 57	MPa	ISO 178
Flexural Strength	155 / -	MPa	ISO 178
Tensile Modulus	4900 / 2500	MPa	ISO 527
Tensile Strength at Break	100 / 60	MPa	ISO 527
Tensile Elongation at Break	2.6 / 25	%	ISO 527
Impact Strength (Charpy, 23°C)	30 / 130	kJ/m²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	30 / -	kJ/m²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	3 / 8	kJ/m²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	3 / -	kJ/m²	ISO 179/1eA
Thermal Properties			
HDT / A (1,8 MPa)	189 / *	°C	ISO 75-1/-2
Rheological Properties			
Shrinkage (lengthwise, 24h)	0.4 - 0.6	%	ISO 294-4
Shrinkage (lateral, 24h)	0.8 - 1	%	ISO 294-4
Physical Properties			
Density	1210 / -	kg/m³	ISO 1183