

Technical Data Sheet



ALTECH PA6 A 2030/516.01 GF30 IM

Base Polymer	Polyamide 6
Filler/Additive System	30 % glass fibres
Colour	black
Special Features	easy release (demoulding), impact modified, injection moulding grade, heat stabilised, nucleated, processing stabilised
Market Segment	Automotive, electrical and electronic
Application Area	exterior parts, interior decoration / finishing, electrical components
Typical Applications	housings, functional components, plugs / connectors

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	7600 / 4500	MPa	ISO 178
Flexural Strength	205 / 115	MPa	ISO 178
Tensile Modulus	8300 / 4800	MPa	ISO 527
Tensile Strength at Break	135 / 80	MPa	ISO 527
Tensile Elongation at Break	3.3 / 10	%	ISO 527
Impact Strength (Charpy, 23°C)	75 / 90	kJ/m ²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	75 / -	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	17 / 25	kJ/m ²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	10 / -	kJ/m ²	ISO 179/1eA
Thermal Properties			
HDT / A (1,8 MPa)	210 / *	°C	ISO 75-1/-2
DSC (Melt Point)	220 / *	°C	ISO 11357
Rheological Properties			
Shrinkage (lengthwise, 24h)	0.2 - 0.4	%	ISO 294-4
Shrinkage (lateral, 24h)	0.6 - 0.8	%	ISO 294-4
Physical Properties			
Density	1320 / -	kg/m ³	ISO 1183