

Technical Data Sheet



ALTECH PA6 A 2015/210 GF15 IM

Base Polymer	Polyamide 6
Filler/Additive System	15 % glass fibres
Colour	black, grey, natural color
Special Features	impact modified, heat stabilised, injection moulding grade
Market Segment	Machinery, electrical and electronic
Application Area	power tools, injection moulded parts
Typical Applications	housings, security engineering 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	4400 / -	MPa	ISO 178
Flexural Strength	145 / -	MPa	ISO 178
Tensile Modulus	5000 / -	MPa	ISO 527
Tensile Strength at Break	100 / -	MPa	ISO 527
Tensile Elongation at Break	4.6 / -	%	ISO 527
Impact Strength (Charpy, 23°C)	75 / -	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	16 / -	kJ/m ²	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/m ³	ISO 1183