

Technical Data Sheet



ALTECH PA6 A 2025/109 GF25

Base Polymer	Polyamide 6
Filler/Additive System	25 % glass fibres
Colour	black,grey,natural color
Special Features	heat stabilised,fast solidifying,easy release (demoulding),processing stabilised,nucleated
Market Segment	Machinery,Automotive,electrical and electronic
Application Area	injection moulded parts,exterior parts,electrical components
Typical Applications	housings,functional components,handles

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	7000 / 4400	MPa	ISO 178
Flexural Strength	215 / 135	MPa	ISO 178
Tensile Modulus	8000 / 4300	MPa	ISO 527
Tensile Strength at Break	144 / 90	MPa	ISO 527
Tensile Elongation at Break	3.5 / 7.2	%	ISO 527
Impact Strength (Charpy, 23°C)	70 / 95	kJ/m ²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	55 / -	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	10 / 18	kJ/m ²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	7.5 / -	kJ/m ²	ISO 179/1eA
Thermal Properties			
HDT / A (1,8 MPa)	209 / *	°C	ISO 75-1/-2
DSC (Melt Point)	221 / *	°C	ISO 11357
Rheological Properties			
Shrinkage (lengthwise, 24h)	0.2 - 0.4	%	ISO 294-4
Shrinkage (lateral, 24h)	0.7 - 0.9	%	ISO 294-4
Physical Properties			
Density	1310 / -	kg/m ³	ISO 1183
Flammability			
Flammability (0.75 mm)	HB / *	class	UL 94
Yellow Card available	yes / *	-	-
Glow Wire (GWFI, 650°C, 1.0mm)	passed	-	DIN EN 60695