

Technical Data Sheet



ALTECH PA6 A 2035/109 GF35

Base Polymer	Polyamide 6
Filler/Additive System	35 % glass fibres
Colour	black,blue,natural color,red,yellow
Special Features	heat stabilised,easy release (demoulding),injection moulding grade,nucleated,processing stabilised
Market Segment	Automotive,electrical and electronic,building and construction
Application Area	injection moulded parts,electrical components,engine and drive systems,interior decoration / finishing,exterior parts
Typical Applications	functional components,different automotive powertrain parts,fans,housings
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	9300 / 6400	MPa	ISO 178
Flexural Strength	252 / 175	MPa	ISO 178
Tensile Modulus	10300 / 6800	MPa	ISO 527
Tensile Strength at Break	170 / 115	MPa	ISO 527
Tensile Elongation at Break	3.3 / 5.5	%	ISO 527
Impact Strength (Charpy, 23°C)	90 / 95	kJ/m²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	65 / -	kJ/m²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	13 / 20	kJ/m²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	9 / -	kJ/m²	ISO 179/1eA
Thermal Properties			
HDT / A (1,8 MPa)	213 / *	°C	ISO 75-1/-2
DSC (Melt Point)	220 / *	°C	ISO 11357
Rheological Properties			
Shrinkage (lengthwise, 24h)	0.1 - 0.3	%	ISO 294-4
Shrinkage (lateral, 24h)	0.6 - 0.8	%	ISO 294-4
Physical Properties			
Density	1400 / -	kg/m³	ISO 1183
Flammability			
Flammability (0.75 mm)	HB / *	class	UL 94
Yellow Card available	yes / *	-	-