

Technical Data Sheet



ALTECH PA6 A 2020/109 GF20

Base Polymer	Polyamide 6
Filler/Additive System	20 % glass fibres
Colour	black,blue,grey,natural color,white
Special Features	heat stabilised,fast solidifying,processing stabilised,nucleated,easy release (demoulding)
Market Segment	Automotive,electrical and electronic,Machinery
Application Area	engine and drive systems,electrical components,exterior parts,injection moulded parts
Typical Applications	functional components,different automotive powertrain parts,engine cover

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	5800 / -	MPa	ISO 178
Flexural Strength	200 / -	MPa	ISO 178
Tensile Modulus	6700 / -	MPa	ISO 527
Tensile Strength at Break	140 / -	MPa	ISO 527
Tensile Elongation at Break	3.3 / -	%	ISO 527
Impact Strength (Charpy, 23°C)	50 / -	kJ/m ²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	50 / -	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	7.5 / -	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)	207 / *	°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)	0.7 - 0.9	%	ISO 294-4
Physical Properties			
Density	1270 / -	kg/m ³	ISO 1183
Flammability			
Flammability (0.75 mm)	HB / *	class	UL 94
Yellow Card available	yes / *	-	-