

Technical Data Sheet



ALTECH PA6 FC 2050/100 GF50

Base Polymer	Polyamide 6
Filler/Additive System	50 % glass fibres
Colour	natural color
Special Features	heat stabilised,injection moulding grade,processing stabilised,easy release (demoulding)
Market Segment	food processing industry
Application Area	food contact,injection moulded parts,functional components

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

Minimum Shelf Life months <12

Properties	dry/cond.	Dimension	Test Norm
Mechanical Properties			
Flexural Modulus	13600 / -	MPa	ISO 178
Flexural Strength	280 / -	MPa	ISO 178
Tensile Modulus	14300 / -	MPa	ISO 527
Tensile Strength at Break	170 / -	MPa	ISO 527
Tensile Elongation at Break	3 / -	%	ISO 527
Impact Strength (Charpy, 23°C)	74 / -	kJ/m ²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	65 / -	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	11 / -	kJ/m ²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	8 / -	kJ/m ²	ISO 179/1eA
Thermal Properties			
HDT / A (1,8 MPa)	214 / *	°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)	0.2 - 0.4	%	ISO 294-4
Physical Properties			
Density	1560 / -	kg/m ³	ISO 1183