Technical Data Sheet

ALTECH PA6 FC 2050/100 GF50

(Last update: 07.09.2022)

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/m²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	65 / -	kJ/m²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	11 / -	kJ/m²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	8 / -	kJ/m²	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/m³	ISO 1183

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Additional Information

Different color matches of this material can have significant influence on the suitability according to the various food contact directives (e.g. FDA or EU). Please request a compliance confirmation per colorcode regarding the suitability for the specific food contact application.

Liability Exclusion

These are guide values and not a specification. The test values mentioned are representative values only and not binding minimum or maximum figures. These test values have been determined on standardised test specimens and can be affected by pigmentation, mould design and processing conditions.

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