

Technical Data Sheet



ALTECH PP-H FC 2020/100.01

Base Polymer	Polypropylene Homopolymer
Filler/Additive System	20 % glass fibres
Colour	natural color
Special Features	easy release (demoulding), processing stabilised, heat stabilised
Market Segment	building and construction, packaging
Application Area	food contact, household goods
Typical Applications	thin walled parts, kitchenware

Pre-Drying Conditions	in a dry air (dessiccant) dryer 80-120 °C for 2-3 h in an air circulating dryer 80-120 °C for 2-4 h dependant on moisture content max. moisture content <0,10 %
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Processing Injection Moulding	melt temperature 200-250 °C mould temperature 20-70 °C
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Storage	dry, protected from light
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Minimum Shelf Life	months <24
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Properties	Value	Dimension	Test Norm
Mechanical Properties			
Flexural Modulus	3600	MPa	ISO 178
Flexural Strength	93	MPa	ISO 178
Tensile Modulus	4200	MPa	ISO 527
Tensile Strength at Break	65	MPa	ISO 527
Tensile Elongation at Break	3	%	ISO 527
Impact Strength (Charpy, 23°C)	35	kJ/m ²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	19	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	6	kJ/m ²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	5	kJ/m ²	ISO 179/1eA
Thermal Properties			
Vicat B50	125	°C	ISO 306
HDT / A (1,8 MPa)	139	°C	ISO 75-1/-2
DSC (Melt Point)	163	°C	ISO 11357
Rheological Properties			
Melt Index (MVR)	4	cm ³ /10min	ISO 1133
MVR temperature	230	°C	-
MVR load	2.16	kg	-
Shrinkage (lengthwise, 24h)	0.3 - 0.5	%	ISO 294-4
Shrinkage (lateral, 24h)	0.5 - 0.7	%	ISO 294-4
Physical Properties			
Density	1040	kg/m ³	ISO 1183