

Technical Data Sheet



ALTECH PP-H FC 1000/100 DS

Base Polymer	Polypropylene Homopolymer
Colour	natural color
Special Features	detergent solution stabilised,good hydrolysis resistant,easy release (demoulding),slip agent,heat stabilised
Market Segment	electrical and electronic,packaging,building and construction
Application Area	food contact,injection moulded parts,exterior parts
Typical Applications	functional components,housings

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 %
Processing Injection Moulding	melt temperature 200-240 °C mould temperature 20-70 °C
Storage	dry, protected from light
Minimum Shelf Life	months <24

Properties	Value	Dimension	Test Norm
Mechanical Properties			
Flexural Modulus	1300	MPa	ISO 178
Flexural Stress (3.5% Strain)	33	MPa	ISO 178
Tensile Modulus	1500	MPa	ISO 527
Tensile Stress at Yield	33	MPa	ISO 527
Tensile Elongation at Yield	10	%	ISO 527
Tensile Elongation at Break	65	%	ISO 527
Impact Strength (Charpy, 23°C)	no break	kJ/m ²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	17	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	5	kJ/m ²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	1.5	kJ/m ²	ISO 179/1eA
Thermal Properties			
Vicat B50	92	°C	ISO 306
HDT / A (1,8 MPa)	62	°C	ISO 75-1/-2
DSC (Melt Point)	166	°C	ISO 11357
Rheological Properties			
Melt Index (MVR)	3	cm ³ /10min	ISO 1133
MVR temperature	230	°C	-
MVR load	2.16	kg	-
Shrinkage (lengthwise, 24h)	1.2 - 1.5	%	ISO 294-4

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Shrinkage (lateral, 24h)	1.2 - 1.8	%	ISO 294-4
Physical Properties			
Density	900	kg/m³	ISO 1183