

## ALTECH PP-H FC 1000/576

(Last update: 22.06.2021)

### MOCOM

Base Polymer	Polypropylene Homopolymer
Colour	natural color
Special Features	nucleated, food contact
Market Segment	food processing industry, building and construction, electrical and electronic
Application Area	household goods, electrical components, domestic appliances, filter systems
Typical Applications	injection moulded parts, 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
<b>Mechanical Properties</b>			
Flexural Modulus	1800	MPa	ISO 178
Flexural Stress (3.5% Strain)	45	MPa	ISO 178
Tensile Modulus	1400	MPa	ISO 527
Tensile Stress at Yield	40	MPa	ISO 527
Tensile Elongation at Yield	8.7	%	ISO 527
Tensile Elongation at Break	100	%	ISO 527
Impact Strength (Charpy, 23°C)	75	kJ/m <sup>2</sup>	ISO 179/1eU
Impact Strength (Charpy, -40°C)	15	kJ/m <sup>2</sup>	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	4	kJ/m <sup>2</sup>	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	1.5	kJ/m <sup>2</sup>	ISO 179/1eA
<b>Thermal Properties</b>			
Vicat B50	100	°C	ISO 306
HDT / A (1,8 MPa)	65	°C	ISO 75-1/-2
DSC (Melt Point)	165	°C	ISO 11357
<b>Rheological Properties</b>			
Melt Index (MVR)	13	cm <sup>3</sup> /10min	ISO 1133
MVR temperature	230	°C	-
MVR load	2.16	kg	-
Shrinkage (lengthwise, 24h)	1.7 - 1.9	%	ISO 294-4



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Shrinkage (lateral, 24h)	1.6 - 1.8	%	ISO 294-4
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### Physical Properties

Density	900	kg/m <sup>3</sup>	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.

Any information given on the chemical and physical characteristics of our products, including, without limitation, technical advice on applications, whether verbally, in writing or by testing the product, is given to the best of our knowledge and in good faith and does not exempt the buyer from carrying out their own investigations and tests in order to ascertain the product's specific suitability for the purpose intended.

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- any bodily implant application for greater than 30 days
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