

ALTECH PP-H FC 2020/100.01

(Last update: 09.06.2023)

MOCOM

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 %
Processing Injection Moulding	melt temperature 200-250 °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	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/m²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	19	kJ/m²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	6	kJ/m²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	5	kJ/m²	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	cm³/10min	ISO 1133
MVR temperature	230	°C	-
MVR load	2.16	kg	-
Shrinkage (lengthwise, 24h)	0.3 - 0.5	%	ISO 294-4



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Shrinkage (lateral, 24h)	0.5 - 0.7	%	ISO 294-4
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Physical Properties

Density	1040	kg/m ³	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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