

ALTECH ABS FC 1000/106

(Last update: 26.01.2023)

MOCOM

Base Polymer	Acrylonitrile/Butadiene/Styrene/Copolymer
Special Features	easy flow,processing stabilised,injection moulding grade
Market Segment	various,food processing industry
Typical Applications	domestic appliances,injection moulded parts,food contact

Pre-Drying Conditions	80 °C in an air circulating dryer for 3-6 h 80 °C in a dry air (dessiccant) dryer for 2-4 h dependant on moisture content max. moisture content <0,20 %
Processing Injection Moulding	melt temperature 200-240 °C mould temperature 50-80 °C
Storage	dry, protected from light
Minimum Shelf Life	months <12

Properties	Value	Dimension	Test Norm
Mechanical Properties			
Flexural Modulus	2600	MPa	ISO 178
Flexural Stress (3.5% Strain)	65	MPa	ISO 178
Tensile Modulus	2500	MPa	ISO 527
Tensile Stress at Yield	44	MPa	ISO 527
Tensile Elongation at Yield	2.2	%	ISO 527
Tensile Elongation at Break	8.5	%	ISO 527
Impact Strength (Charpy, 23°C)	47	kJ/m²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	40	kJ/m²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	8	kJ/m²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	4	kJ/m²	ISO 179/1eA
Ball Indentation Hardness H358/30	101	MPa	ISO 2039-1
Thermal Properties			
Vicat B50	93	°C	ISO 306
HDT / A (1,8 MPa)	81	°C	ISO 75-1/-2
Rheological Properties			
Melt Index (MVR)	26	cm³/10min	ISO 1133
MVR temperature	220	°C	-
MVR load	10	kg	-



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Physical Properties

Density	1060	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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- any bodily implant application for greater than 30 days
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