

ALTECH ABS A 1000/506

(Last update: 08.10.2021)

MOCOM

Base Polymer	Acrylonitrile/Butadiene/Styrene/Copolymer
Colour	yellow
Special Features	high heat stabilised, processing stabilised, injection moulding grade
Market Segment	various, building and construction
Typical Applications	domestic appliances, injection moulded parts, functional components, housings

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

Properties	Value	Dimension	Test Norm
Mechanical Properties			
Flexural Modulus	2700	MPa	ISO 178
Flexural Stress (3.5% Strain)	74	MPa	ISO 178
Tensile Modulus	2400	MPa	ISO 527
Tensile Stress at Yield	47	MPa	ISO 527
Tensile Elongation at Yield	2.8	%	ISO 527
Tensile Elongation at Break	30	%	ISO 527
Impact Strength (Charpy, 23 °C)	185	kJ/m ²	ISO 179/1eU
Impact Strength (Charpy, -40 °C)	90	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23 °C)	17	kJ/m ²	ISO 179/1eA
Notched Impact Strength (Charpy, -40 °C)	7	kJ/m ²	ISO 179/1eA
Ball Indentation Hardness H358/30	110	MPa	ISO 2039-1
Thermal Properties			
Vicat B50	108	°C	ISO 306
HDT / A (1,8 MPa)	92	°C	ISO 75-1/-2
Rheological Properties			
Melt Index (MVR)	10	cm ³ /10min	ISO 1133
MVR temperature	220	°C	-
MVR load	10	kg	-
Shrinkage (24h)	0.5 - 0.8	%	ISO 294-4



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Physical Properties

Density	1060	kg/m ³	ISO 1183
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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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