

ALTECH ABS A 1000/907

(Last update: 09.08.2022)

MOCOM

Base Polymer	Acrylonitrile/Butadiene/Styrene/Copolymer
Colour	green,grey,orange,white
Special Features	high surface quality,injection moulding grade,easy flow
Market Segment	electrical and electronic,building and construction
Application Area	gardening tools,injection moulded parts
Typical Applications	housings,bezels

Pre-Drying Conditions	80 °C in a dry air (dessiccant) dryer for 2-4 h 80 °C in an air circulating dryer for 3-6 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	2450	MPa	ISO 178
Flexural Stress (3.5% Strain)	64	MPa	ISO 178
Tensile Modulus	2300	MPa	ISO 527
Tensile Stress at Yield	43	MPa	ISO 527
Tensile Elongation at Yield	2.2	%	ISO 527
Tensile Elongation at Break	17	%	ISO 527
Impact Strength (Charpy, 23°C)	85	kJ/m²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	65	kJ/m²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	17	kJ/m²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	6	kJ/m²	ISO 179/1eA
Ball Indentation Hardness H358/30	110	MPa	ISO 2039-1
Thermal Properties			
Vicat B50	95	°C	ISO 306
HDT / A (1,8 MPa)	79	°C	ISO 75-1/-2
Rheological Properties			
Melt Index (MVR)	30	cm³/10min	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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Flammability

Flammability (0.75 mm)	HB	class	UL 94
Yellow Card available	yes	-	-
Flammability (1.5 mm)	HB	class	UL 94
Yellow Card available	yes	-	-
Flammability (3.0 mm)	HB	class	UL 94
Yellow Card available	yes	-	-
Glow Wire (GWFI, 650 °C, 1.0mm)	passed	-	DIN EN 60695
Glow Wire (GWFI, 650 °C, 2.0mm)	passed	-	DIN EN 60695

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.

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