

## Technical Data Sheet



### ALTECH ABS A 1000/906

Base Polymer	Acrylonitrile/Butadiene/Styrene/Copolymer
Colour	beige,blue,green,grey,red,white
Special Features	high surface quality,injection moulding grade,heat stabilised,processing stabilised
Market Segment	building and construction
Application Area	gardening tools,injection moulded parts
Typical Applications	housings,functional components

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
<b>Mechanical Properties</b>			
Flexural Modulus	2400	MPa	ISO 178
Flexural Stress (3.5% Strain)	65	MPa	ISO 178
Tensile Modulus	2300	MPa	ISO 527
Tensile Stress at Yield	45	MPa	ISO 527
Tensile Elongation at Yield	2.3	%	ISO 527
Tensile Elongation at Break	15	%	ISO 527
Impact Strength (Charpy, 23°C)	100	kJ/m <sup>2</sup>	ISO 179/1eU
Impact Strength (Charpy, -40°C)	85	kJ/m <sup>2</sup>	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	20	kJ/m <sup>2</sup>	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	7	kJ/m <sup>2</sup>	ISO 179/1eA
Ball Indentation Hardness H358/30	100	MPa	ISO 2039-1
<b>Thermal Properties</b>			
Vicat B50	96	°C	ISO 306
HDT / A (1,8 MPa)	80	°C	ISO 75-1/-2
<b>Rheological Properties</b>			
Melt Index (MVR)	19	cm <sup>3</sup> /10min	ISO 1133
MVR temperature	220	°C	-
MVR load	10	kg	-
Shrinkage (24h)	0.4 - 0.8	%	ISO 294-4

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(Last update: 23.08.2022)

#### Physical Properties

Density	1040	kg/m <sup>3</sup>	ISO 1183
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#### Flammability

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