

## Technical Data Sheet



### ALTECH ABS A 1000/206

Base Polymer	Acrylonitrile/Butadiene/Styrene/Copolymer
Colour	grey
Special Features	heat stabilised, processing stabilised
Market Segment	various
Application Area	injection moulded parts, housings, functional components

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
<b>Mechanical Properties</b>			
Flexural Modulus	2800	MPa	ISO 178
Flexural Stress (3.5% Strain)	80	MPa	ISO 178
Tensile Modulus	2600	MPa	ISO 527
Tensile Stress at Yield	52	MPa	ISO 527
Tensile Elongation at Yield	2.8	%	ISO 527
Tensile Elongation at Break	15	%	ISO 527
Impact Strength (Charpy, 23°C)	130	kJ/m <sup>2</sup>	ISO 179/1eU
Impact Strength (Charpy, -40°C)	90	kJ/m <sup>2</sup>	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	9	kJ/m <sup>2</sup>	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	4	kJ/m <sup>2</sup>	ISO 179/1eA
Ball Indentation Hardness H358/30	112	MPa	ISO 2039-1
<b>Thermal Properties</b>			
Vicat B50	110	°C	ISO 306
HDT / A (1,8 MPa)	95	°C	ISO 75-1/-2
<b>Rheological Properties</b>			
Melt Index (MVR)	6	cm <sup>3</sup> /10min	ISO 1133
MVR temperature	220	°C	-
MVR load	10	kg	-
Shrinkage (24h)	0.4 - 0.7	%	ISO 294-4
<b>Physical Properties</b>			
Density	1070	kg/m <sup>3</sup>	ISO 1183

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(Last update: 17.08.2023)

#### Flammability

Flammability (0.75 mm)

HB

class

UL 94

Flammability (1.5 mm)

HB

class

UL 94

Glow Wire (GWFI, 650°C, 1.0mm)

passed

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DIN EN 60695

Glow Wire (GWFI, 650°C, 2.0mm)

passed

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DIN EN 60695