

## Technical Data Sheet



### ALTECH ABS A 1000/100

Base Polymer	Acrylonitrile/Butadiene/Styrene/Copolymer
Colour	blue,green,grey,red,violet,white
Special Features	medium viscosity,heat stabilised,easy release (demoulding),processing stabilised
Market Segment	building and construction,sport and leisure
Application Area	injection moulded parts
Typical Applications	housings

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	2350	MPa	ISO 178
Flexural Stress (3.5% Strain)	67	MPa	ISO 178
Tensile Modulus	2400	MPa	ISO 527
Tensile Stress at Yield	44	MPa	ISO 527
Tensile Elongation at Yield	2.4	%	ISO 527
Tensile Elongation at Break	12	%	ISO 527
Impact Strength (Charpy, 23°C)	90	kJ/m <sup>2</sup>	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	20	kJ/m <sup>2</sup>	ISO 179/1eA
Ball Indentation Hardness H358/30	100	MPa	ISO 2039-1
<b>Thermal Properties</b>			
Vicat B50	95	°C	ISO 306
HDT / A (1,8 MPa)	85	°C	ISO 75-1/-2
<b>Rheological Properties</b>			
Melt Index (MVR)	18	cm <sup>3</sup> /10min	ISO 1133
MVR temperature	220	°C	-
MVR load	10	kg	-
Shrinkage (24h)	0.4 - 0.8	%	ISO 294-4
<b>Physical Properties</b>			
Density	1040	kg/m <sup>3</sup>	ISO 1183