

## Technical Data Sheet



### ALTECH ABS A 1000/587

Base Polymer	Acrylonitrile/Butadiene/Styrene/Copolymer
Colour	black
Special Features	injection moulding grade,also suitable for extrusion
Market Segment	various,building and construction
Application Area	injection moulded parts,interior decoration / finishing
Typical Applications	housings,functional components,handles

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	2000	MPa	ISO 178
Flexural Stress (3.5% Strain)	60	MPa	ISO 178
Tensile Modulus	2000	MPa	ISO 527
Tensile Stress at Yield	41	MPa	ISO 527
Tensile Elongation at Yield	2.6	%	ISO 527
Tensile Elongation at Break	10	%	ISO 527
Impact Strength (Charpy, 23°C)	100	kJ/m <sup>2</sup>	ISO 179/1eU
Impact Strength (Charpy, -40°C)	65	kJ/m <sup>2</sup>	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	22	kJ/m <sup>2</sup>	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	11	kJ/m <sup>2</sup>	ISO 179/1eA
<b>Thermal Properties</b>			
Vicat B50	94	°C	ISO 306
HDT / A (1,8 MPa)	84	°C	ISO 75-1/-2
<b>Rheological Properties</b>			
Melt Index (MVR)	26	cm <sup>3</sup> /10min	ISO 1133
MVR temperature	220	°C	-
MVR load	10	kg	-
Shrinkage (24h)	0.5 - 0.8	%	ISO 294-4
<b>Physical Properties</b>			
Density	1030	kg/m <sup>3</sup>	ISO 1183