

## Technical Data Sheet



### ALTECH ABS A 1000/326

Base Polymer	Acrylonitrile/Butadiene/Styrene/Copolymer
Filler/Additive System	light stabiliser
Colour	black
Special Features	UV stabilised,heat stabilised,processing stabilised
Market Segment	electrical and electronic,building and construction
Application Area	injection moulded parts,domestic appliances
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	2500	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	2.2	%	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)	75	kJ/m <sup>2</sup>	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	17	kJ/m <sup>2</sup>	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	6	kJ/m <sup>2</sup>	ISO 179/1eA
Ball Indentation Hardness H358/30	100	MPa	ISO 2039-1
<b>Thermal Properties</b>			
Vicat B50	93	°C	ISO 306
HDT / A (1,8 MPa)	80	°C	ISO 75-1/-2
<b>Rheological Properties</b>			
Shrinkage (24h)	0.5 - 0.8	%	ISO 294-4
<b>Physical Properties</b>			
Density	1040	kg/m <sup>3</sup>	ISO 1183