

## Technical Data Sheet



### ALTECH ABS A 1000/172 UV

Base Polymer	Acrylonitrile/Butadiene/Styrene/Copolymer
Filler/Additive System	light stabiliser
Colour	grey,white
Special Features	good flow,processing stabilised,UV stabilised,heat stabilised
Market Segment	Information Technology,electrical and electronic,various
Application Area	telecommunications,consumer electronics
Typical Applications	display elements,keyboards

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 %
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Processing Injection Moulding	melt temperature 200-240 °C mould temperature 50-80 °C
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Storage	dry, protected from light
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Properties	Value	Dimension	Test Norm
<b>Mechanical Properties</b>			
Flexural Modulus	2400	MPa	ISO 178
Flexural Stress (3.5% Strain)	70	MPa	ISO 178
Tensile Modulus	2500	MPa	ISO 527
Tensile Stress at Yield	45	MPa	ISO 527
Tensile Elongation at Yield	2.5	%	ISO 527
Tensile Elongation at Break	20	%	ISO 527
Impact Strength (Charpy, 23°C)	80	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)	12	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	110	MPa	ISO 2039-1
<b>Thermal Properties</b>			
Vicat B50	95	°C	ISO 306
HDT / A (1,8 MPa)	80	°C	ISO 75-1/-2
<b>Rheological Properties</b>			
Melt Index (MVR)	30	cm <sup>3</sup> /10min	ISO 1133
MVR temperature	220	°C	-
MVR load	10	kg	-
Shrinkage (24h)	0.3 - 0.7	%	ISO 294-4
<b>Physical Properties</b>			
Density	1100	kg/m <sup>3</sup>	ISO 1183