

Technical Data Sheet



**ALTECH ABS A 1000/160**

Base Polymer	Acrylonitrile/Butadiene/Styrene/Copolymer
Colour	grey,white
Special Features	good flow,processing stabilised,heat stabilised
Market Segment	Medical / Personal Care,packaging,various
Application Area	interior decoration / finishing,hygiene products,injection moulded parts
Typical Applications	housings,washer bottles

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

<b>Properties</b>	<b>Value</b>	<b>Dimension</b>	<b>Test Norm</b>
<b>Mechanical Properties</b>			
Flexural Modulus	2600	MPa	ISO 178
Flexural Stress (3.5% Strain)	71	MPa	ISO 178
Tensile Modulus	2500	MPa	ISO 527
Tensile Stress at Yield	45	MPa	ISO 527
Tensile Elongation at Yield	2.4	%	ISO 527
Tensile Elongation at Break	25	%	ISO 527
Impact Strength (Charpy, 23°C)	115	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)	5.5	kJ/m <sup>2</sup>	ISO 179/1eA
Ball Indentation Hardness H358/30	110	MPa	ISO 2039-1
<b>Thermal Properties</b>			
Vicat B50	100	°C	ISO 306
HDT / A (1,8 MPa)	83	°C	ISO 75-1/-2
<b>Rheological Properties</b>			
Melt Index (MVR)	17	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	1070	kg/m <sup>3</sup>	ISO 1183