

Technical Data Sheet



ALTECH ABS A 1000/170

Base Polymer	Acrylonitrile/Butadiene/Styrene/Copolymer
Colour	beige,red,white
Special Features	good flow,processing stabilised,injection moulding grade,processing stabilised,heat stabilised
Market Segment	electrical and electronic,building and construction,Medical / Personal Care
Application Area	ducting / piping systems,domestic appliances, valve components
Typical Applications	housings,printer housings,paper dispensers,operating elements,various

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

Properties	Value	Dimension	Test Norm
Mechanical Properties			
Flexural Modulus	2700	MPa	ISO 178
Flexural Stress (3.5% Strain)	72	MPa	ISO 178
Tensile Modulus	2600	MPa	ISO 527
Tensile Stress at Yield	50	MPa	ISO 527
Tensile Elongation at Yield	2.3	%	ISO 527
Tensile Elongation at Break	15	%	ISO 527
Impact Strength (Charpy, 23°C)	85	kJ/m ²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	70	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	12	kJ/m ²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	5	kJ/m ²	ISO 179/1eA
Ball Indentation Hardness H358/30	108	MPa	ISO 2039-1
Thermal Properties			
Vicat B50	100	°C	ISO 306
HDT / A (1,8 MPa)	85	°C	ISO 75-1/-2
Rheological Properties			
Melt Index (MVR)	28	cm ³ /10min	ISO 1133
MVR temperature	220	°C	-
MVR load	10	kg	-
Shrinkage (24h)	0.3 - 0.6	%	ISO 294-4
Physical Properties			
Density	1080	kg/m ³	ISO 1183