

Technical Data Sheet



ALTECH ABS A 1000/530

Base Polymer	Acrylonitrile/Butadiene/Styrene/Copolymer
Colour	blue
Special Features	high surface gloss, slip agent, easy flow, injection moulding grade, antistatic
Market Segment	building and construction
Application Area	various, injection moulded parts, housings, functional components

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 %
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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
Mechanical Properties			
Flexural Modulus	2300	MPa	ISO 178
Flexural Stress (3.5% Strain)	60	MPa	ISO 178
Tensile Modulus	2250	MPa	ISO 527
Tensile Stress at Yield	40	MPa	ISO 527
Tensile Elongation at Yield	2	%	ISO 527
Tensile Elongation at Break	30	%	ISO 527
Impact Strength (Charpy, 23°C)	90	kJ/m ²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	80	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	20	kJ/m ²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	7.5	kJ/m ²	ISO 179/1eA
Ball Indentation Hardness H358/30	100	MPa	ISO 2039-1
Thermal Properties			
Vicat B50	95	°C	ISO 306
HDT / A (1,8 MPa)	85	°C	ISO 75-1/-2
Rheological Properties			
Melt Index (MVR)	40	cm ³ /10min	ISO 1133
MVR temperature	220	°C	-
MVR load	10	kg	-
Shrinkage (24h)	0.4 - 0.7	%	ISO 294-4
Physical Properties			
Density	1040	kg/m ³	ISO 1183