

Technical Data Sheet



ALTECH ABS A 1000/506

Base Polymer	Acrylonitrile/Butadiene/Styrene/Copolymer
Colour	yellow
Special Features	high heat stabilised, processing stabilised, injection moulding grade
Market Segment	various, building and construction
Typical Applications	domestic appliances, injection moulded parts, functional components, housings

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)	74	MPa	ISO 178
Tensile Modulus	2400	MPa	ISO 527
Tensile Stress at Yield	47	MPa	ISO 527
Tensile Elongation at Yield	2.8	%	ISO 527
Tensile Elongation at Break	30	%	ISO 527
Impact Strength (Charpy, 23°C)	185	kJ/m ²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	90	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	17	kJ/m ²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	7	kJ/m ²	ISO 179/1eA
Ball Indentation Hardness H358/30	110	MPa	ISO 2039-1
Thermal Properties			
Vicat B50	108	°C	ISO 306
HDT / A (1,8 MPa)	92	°C	ISO 75-1/-2
Rheological Properties			
Melt Index (MVR)	10	cm ³ /10min	ISO 1133
MVR temperature	220	°C	-
MVR load	10	kg	-
Shrinkage (24h)	0.5 - 0.8	%	ISO 294-4
Physical Properties			
Density	1060	kg/m ³	ISO 1183