

Technical Data Sheet



ALTECH ABS A 1000/180

Base Polymer	Acrylonitrile/Butadiene/Styrene/Copolymer
Colour	grey
Special Features	injection moulding grade,easy release (demoulding),processing stabilised,heat stabilised
Market Segment	Automotive,Medical / Personal Care
Application Area	domestic appliances,household goods,interior decoration / finishing
Typical Applications	dashboard / instrument panels,impact protection / shock absorber,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	2650	MPa	ISO 178
Flexural Stress (3.5% Strain)	75	MPa	ISO 178
Tensile Modulus	2550	MPa	ISO 527
Tensile Stress at Yield	50	MPa	ISO 527
Tensile Elongation at Yield	2.5	%	ISO 527
Tensile Elongation at Break	15	%	ISO 527
Impact Strength (Charpy, 23°C)	105	kJ/m ²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	65	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	14	kJ/m ²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	5	kJ/m ²	ISO 179/1eA
Ball Indentation Hardness H358/30	109	MPa	ISO 2039-1
Thermal Properties			
Vicat B50	100	°C	ISO 306
HDT / A (1,8 MPa)	92	°C	ISO 75-1/-2
Rheological Properties			
Melt Index (MVR)	18	cm ³ /10min	ISO 1133
MVR temperature	220	°C	-
MVR load	10	kg	-
Physical Properties			
Density	1050	kg/m ³	ISO 1183