

Technical Data Sheet



ALTECH ABS A 2010/500 GF10

Base Polymer	Acrylonitrile/Butadiene/Styrene/Copolymer
Filler/Additive System	10 % glass fibres
Colour	grey
Special Features	good flow, slip agent, processing stabilised, injection moulding grade
Market Segment	various
Application Area	injection moulded parts

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 %
Processing Injection Moulding	melt temperature 220-260 °C mould temperature 50-80 °C
Storage	dry, protected from light

Properties	Value	Dimension	Test Norm
Mechanical Properties			
Flexural Modulus	4000	MPa	ISO 178
Flexural Strength	80	MPa	ISO 178
Tensile Modulus	4300	MPa	ISO 527
Tensile Strength at Break	53	MPa	ISO 527
Tensile Elongation at Break	1.8	%	ISO 527
Impact Strength (Charpy, 23°C)	16	kJ/m ²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	20	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	5	kJ/m ²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	4	kJ/m ²	ISO 179/1eA
Ball Indentation Hardness H358/30	120	MPa	ISO 2039-1
Thermal Properties			
Vicat B50	97	°C	ISO 306
HDT / A (1,8 MPa)	91	°C	ISO 75-1/-2
Rheological Properties			
Melt Index (MVR)	15	cm ³ /10min	ISO 1133
MVR temperature	220	°C	-
MVR load	10	kg	-
Shrinkage (lengthwise, 24h)	0.2 - 0.4	%	ISO 294-4
Shrinkage (lateral, 24h)	0.2 - 0.4	%	ISO 294-4

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Physical Properties

Density	1140	kg/m ³	ISO 1183
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Flammability

Flammability (1.5 mm)	HB	class	UL 94
Glow Wire (GWFI, 650°C, 2.0mm)	passed	-	DIN EN 60695