

Technical Data Sheet



ALTECH ABS A 2020/906

Base Polymer	Acrylonitrile/Butadiene/Styrene/Copolymer
Filler/Additive System	20 % glass fibres
Colour	black,natural color,white
Special Features	high stiffness,injection moulding grade,processing stabilised,heat stabilised
Market Segment	various
Typical Applications	housings,various,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	5800	MPa	ISO 178
Flexural Strength	100	MPa	ISO 178
Tensile Modulus	6100	MPa	ISO 527
Tensile Strength at Break	70	MPa	ISO 527
Tensile Elongation at Break	1.5	%	ISO 527
Impact Strength (Charpy, 23°C)	17	kJ/m ²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	18	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	128	MPa	ISO 2039-1
Thermal Properties			
Vicat B50	104	°C	ISO 306
HDT / A (1,8 MPa)	100	°C	ISO 75-1/-2
Rheological Properties			
Melt Index (MVR)	5	cm ³ /10min	ISO 1133
MVR temperature	220	°C	-
MVR load	10	kg	-
Shrinkage (lengthwise, 24h)	0.1 - 0.3	%	ISO 294-4
Shrinkage (lateral, 24h)	0.2 - 0.4	%	ISO 294-4

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(Last update: 18.02.2025)

Physical Properties

Density	1200	kg/m ³	ISO 1183
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Flammability

Glow Wire (GWFI, 650°C, 1.0mm)	passed	-	DIN EN 60695
Glow Wire (GWFI, 650°C, 2.0mm)	passed	-	DIN EN 60695