

Technical Data Sheet



ALTECH PC A 2020/500

Base Polymer	Polycarbonate
Filler/Additive System	20 % glass fibres
Colour	black
Special Features	heat stabilised, injection moulding grade, easy release (demoulding)
Market Segment	various, building and construction, Automotive
Application Area	various, injection moulded parts, interior decoration / finishing
Typical Applications	housings, functional components

Pre-Drying Conditions	in a dry air (dessiccant) dryer 100-120 °C for 2-3 h in an air circulating dryer 100-120 °C for 4-12 h dependant on moisture content max. moisture content <0,02 %
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Processing Injection Moulding	melt temperature 310-330 °C mould temperature 80-130 °C
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Storage	dry, protected from light
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Properties	Value	Dimension	Test Norm
Mechanical Properties			
Flexural Modulus	4200	MPa	ISO 178
Flexural Strength	110	MPa	ISO 178
Tensile Modulus	4400	MPa	ISO 527
Tensile Strength at Break	70	MPa	ISO 527
Tensile Elongation at Break	3.3	%	ISO 527
Impact Strength (Charpy, 23°C)	45	kJ/m ²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	45	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	4	kJ/m ²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	4	kJ/m ²	ISO 179/1eA
Thermal Properties			
Vicat B50	145	°C	ISO 306
HDT / A (1,8 MPa)	138	°C	ISO 75-1/-2
Rheological Properties			
Melt Index (MVR)	19	cm ³ /10min	ISO 1133
MVR temperature	300	°C	-
MVR load	1.2	kg	-
Shrinkage (lengthwise, 24h)	0.4 - 0.6	%	ISO 294-4
Shrinkage (lateral, 24h)	0.5 - 0.7	%	ISO 294-4

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Physical Properties

Density	1330	kg/m ³	ISO 1183
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Flammability

Flammability (1.5 mm)	V-2	class	UL 94
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