

Technical Data Sheet



ALTECH PC A 2030/100 GF30

Base Polymer	Polycarbonate
Filler/Additive System	30 % glass fibres
Colour	black
Special Features	good flow, heat stabilised, easy release (demoulding), processing stabilised
Market Segment	Automotive, electrical and electronic
Application Area	injection moulded parts
Typical Applications	thin walled parts, housings
Approvals	GMW3013

Pre-Drying Conditions	120 °C in a dry air (dessiccant) dryer for 2-3 h 120 °C in an air circulating dryer for 4-12 h dependant on moisture content max. moisture content <0,02 %
Processing Injection Moulding	melt temperature 310-330 °C mould temperature 80-130 °C
Storage	dry, protected from light

Properties	Value	Dimension	Test Norm
Mechanical Properties			
Flexural Modulus	6300	MPa	ISO 178
Flexural Strength	110	MPa	ISO 178
Tensile Modulus	6300	MPa	ISO 527
Tensile Strength at Break	75	MPa	ISO 527
Tensile Elongation at Break	2.7	%	ISO 527
Impact Strength (Charpy, 23°C)	40	kJ/m ²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	35	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	144	°C	ISO 306
HDT / A (1,8 MPa)	139	°C	ISO 75-1/-2
Rheological Properties			
Melt Index (MVR)	15	cm ³ /10min	ISO 1133
MVR temperature	300	°C	-
MVR load	1.2	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	1420	kg/m ³	ISO 1183
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Flammability

Flammability (1.5 mm)	HB	class	UL 94
Glow Wire (GWFI, 850°C, 2.0mm)	passed	-	DIN EN 60695