

Technical Data Sheet



ALTECH PC FC 2030/500 GF30

Base Polymer	Polycarbonate
Filler/Additive System	30 % glass fibres
Special Features	good flow
Market Segment	various, food processing industry
Typical Applications	various

Pre-Drying Conditions	in a dry air (dessiccant) dryer 110-120 °C for 2-3 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
Minimum Shelf Life	months <12

Properties	Value	Dimension	Test Norm
Mechanical Properties			
Flexural Modulus	8300	MPa	ISO 178
Flexural Strength	160	MPa	ISO 178
Tensile Modulus	8600	MPa	ISO 527
Tensile Strength at Break	110	MPa	ISO 527
Tensile Elongation at Break	2.1	%	ISO 527
Impact Strength (Charpy, 23°C)	35	kJ/m ²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	40	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	5.5	kJ/m ²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	4.5	kJ/m ²	ISO 179/1eA
Thermal Properties			
Vicat B50	149	°C	ISO 306
HDT / A (1,8 MPa)	144	°C	ISO 75-1/-2
Rheological Properties			
Melt Index (MVR)	8	cm ³ /10min	ISO 1133
MVR temperature	300	°C	-
MVR load	1.2	kg	-
Shrinkage (lengthwise, 24h)	0.1 - 0.3	%	ISO 294-4
Shrinkage (lateral, 24h)	0.3 - 0.5	%	ISO 294-4
Physical Properties			
Density	1470	kg/m ³	ISO 1183