

Technical Data Sheet



ALTECH PSU FC 1000/100

Base Polymer	Polysulfone
Special Features	good flow
Market Segment	Machinery,electrical and electronic
Application Area	injection moulded parts,food contact

Pre-Drying Conditions	in a dry air (dessiccant) dryer 130-150 °C for 3-4 h in an air circulating dryer 130-150 °C for 3-4 h
Processing Injection Moulding	melt temperature 330-380 °C mould temperature 120-140 °C
Storage	dry, protected from light
Minimum Shelf Life	months <24

Properties	Value	Dimension	Test Norm
Mechanical Properties			
Flexural Modulus	2800	MPa	ISO 178
Flexural Stress (3.5% Strain)	93	MPa	ISO 178
Tensile Modulus	2600	MPa	ISO 527
Tensile Stress at Yield	78	MPa	ISO 527
Tensile Elongation at Yield	5.6	%	ISO 527
Tensile Elongation at Break	85	%	ISO 527
Impact Strength (Charpy, 23°C)	no break	kJ/m ²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	no break	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)	5.5	kJ/m ²	ISO 179/1eA
Thermal Properties			
HDT / A (1,8 MPa)	173	°C	ISO 75-1/-2
Rheological Properties			
Shrinkage (24h)	0.6 - 0.9	%	ISO 294-4
Physical Properties			
Density	1230	kg/m ³	ISO 1183