

Technical Data Sheet



ALTECH PBT A 1000/100

Base Polymer	Polybutylene Terephthalate
Special Features	heat stabilised, good flow
Application Area	various, injection moulded parts

Pre-Drying Conditions	in a dry air (dessiccant) dryer 100-120 °C for 2-4 h in an air circulating dryer 100-120 °C for 4-8 h dependant on moisture content max. moisture content <0,04 %
Processing Injection Moulding	melt temperature 250-270 °C mould temperature 40-70 °C
Storage	dry, protected from light

Properties	Value	Dimension	Test Norm
Mechanical Properties			
Flexural Modulus	2650	MPa	ISO 178
Flexural Stress (3.5% Strain)	80	MPa	ISO 178
Tensile Modulus	2650	MPa	ISO 527
Tensile Stress at Yield	58	MPa	ISO 527
Tensile Elongation at Yield	10	%	ISO 527
Tensile Elongation at Break	15	%	ISO 527
Impact Strength (Charpy, 23°C)	190	kJ/m ²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	125	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)	3	kJ/m ²	ISO 179/1eA
Thermal Properties			
Vicat B50	190	°C	ISO 306
HDT / A (1,8 MPa)	65	°C	ISO 75-1/-2
DSC (Melt Point)	225	°C	ISO 11357
Rheological Properties			
Melt Index (MVR)	25	cm ³ /10min	ISO 1133
MVR temperature	250	°C	-
MVR load	2.16	kg	-
Shrinkage (lengthwise, 24h)	2 - 2.2	%	ISO 294-4
Shrinkage (lateral, 24h)	1.9 - 2.1	%	ISO 294-4
Physical Properties			
Density	1320	kg/m ³	ISO 1183