

Technical Data Sheet



ALTECH PS A 1000/108

Base Polymer	Polystyrene
Special Features	various
Market Segment	various
Application Area	various, injection moulded parts
Typical Applications	various

Pre-Drying Conditions	in a dry air (dessiccant) dryer 60-80 °C for 2-3 h in an air circulating dryer 60-80 °C for 2-3 h
Processing Injection Moulding	melt temperature 180-280 °C mould temperature 10-70 °C
Storage	dry, protected from light

Properties	Value	Dimension	Test Norm
Mechanical Properties			
Flexural Modulus	3250	MPa	ISO 178
Flexural Strength	65	MPa	ISO 178
Tensile Modulus	3300	MPa	ISO 527
Tensile Strength at Break	45	MPa	ISO 527
Tensile Elongation at Break	1.5	%	ISO 527
Impact Strength (Charpy, 23 °C)	13	kJ/m ²	ISO 179/1eU
Impact Strength (Charpy, -40 °C)	10	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23 °C)	1.5	kJ/m ²	ISO 179/1eA
Thermal Properties			
Vicat B50	85	°C	ISO 306
HDT / A (1,8 MPa)	80	°C	ISO 75-1/-2
Rheological Properties			
Melt Index (MVR)	12	cm ³ /10min	ISO 1133
MVR temperature	200	°C	-
MVR load	5	kg	-
Shrinkage (lengthwise, 24h)	0.4 - 0.6	%	ISO 294-4
Shrinkage (lateral, 24h)	0.4 - 0.5	%	ISO 294-4
Physical Properties			
Density	1060	kg/m ³	ISO 1183
Flammability			
Flammability (3.0 mm)	HB	class	UL 94
Glow Wire (GWFI, 650 °C, 1.0mm)	passed	-	DIN EN 60695