

Technical Data Sheet



ALCOM MED PS 1000 AS 14114

Base Polymer	Polystyrene, impact
Filler/Additive System	antistatic - permanent
Market Segment	Medical / Personal Care
Application Area	injection moulded parts
Typical Applications	housings

Pre-Drying Conditions	in an air circulating dryer 60-80 °C for 2-3 h in a dry air (dessiccant) dryer 60-80 °C for 2-3 h dependant on moisture content
Processing Injection Moulding	melt temperature 180-260 °C mould temperature 10-70 °C
Storage	dry, protected from light
Minimum Shelf Life	months <24

Properties	Value	Dimension	Based on Test Norm
Mechanical Properties			
Flexural Modulus	2300	MPa	ISO 178
Flexural Stress (3.5% Strain)	40	MPa	ISO 178
Tensile Modulus	2200	MPa	ISO 527
Tensile Stress at Yield	26	MPa	ISO 527
Tensile Elongation at Yield	1.3	%	ISO 527
Tensile Elongation at Break	12	%	ISO 527
Impact Strength (Charpy, 23°C)	27	kJ/m ²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	24	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	3.5	kJ/m ²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	2	kJ/m ²	ISO 179/1eA
Thermal Properties			
Vicat B50	81	°C	ISO 306
HDT / A (1,8 MPa)	73	°C	ISO 75-1/-2
Rheological Properties			
Melt Index (MVR)	16	cm ³ /10min	ISO 1133
MVR temperature	200	°C	-
MVR load	5	kg	-
Shrinkage (24h)	0.3 - 0.6	%	ISO 294-4
Physical Properties			
Density	1040	kg/m ³	ISO 1183