

Technical Data Sheet



ALCOM MED PS 1000 14113

Base Polymer	Polystyrene, impact
Market Segment	Medical / Personal Care
Application Area	injection moulded parts
Typical Applications	housings

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 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 <12

Properties	Value	Dimension	Based on Test Norm
Mechanical Properties			
Flexural Modulus	2250	MPa	ISO 178
Flexural Stress (3.5% Strain)	39	MPa	ISO 178
Tensile Modulus	2200	MPa	ISO 527
Tensile Stress at Yield	25	MPa	ISO 527
Tensile Elongation at Yield	1.2	%	ISO 527
Tensile Elongation at Break	16	%	ISO 527
Impact Strength (Charpy, 23°C)	30	kJ/m ²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	25	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	6	kJ/m ²	ISO 179/1eA
Thermal Properties			
Vicat B50	81	°C	ISO 306
HDT / A (1,8 MPa)	76	°C	ISO 75-1/-2
Rheological Properties			
Melt Index (MVR)	14	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	1030	kg/m ³	ISO 1183

Technical Data Sheet



ALCOM MED PS 1000 14113

(Last update: 10.01.2022)

Flammability

Flammability (1.5 mm)

Glow Wire (GWFI, 650°C, 1.0mm)

Glow Wire (GWFI, 650°C, 2.0mm)

HB

passed

passed

class

-

-

UL 94

DIN EN 60695

DIN EN 60695