

Technical Data Sheet



ALCOM MED POM 1000

Base Polymer	Polyoxymethylene Copolymer
Special Features	extrusion grade
Market Segment	Medical / Personal Care
Application Area	medical devices
Typical Applications	functional components

Pre-Drying Conditions	in a dry air (dessiccant) dryer 100-110 °C for 2-3 h in an air circulating dryer 100-110 °C for 3-5 h dependant on moisture content
Processing Injection Moulding	melt temperature 180-220 °C mould temperature 60-80 °C
Storage	dry, protected from light
Minimum Shelf Life	months <36

Properties	Value	Dimension	Based on Test Norm
Mechanical Properties			
Flexural Modulus	2500	MPa	ISO 178
Flexural Stress (3.5% Strain)	66	MPa	ISO 178
Tensile Modulus	2500	MPa	ISO 527
Tensile Stress at Yield	61	MPa	ISO 527
Tensile Elongation at Yield	10.6	%	ISO 527
Tensile Elongation at Break	30	%	ISO 527
Impact Strength (Charpy, 23°C)	180	kJ/m ²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	145	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	8	kJ/m ²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	5.5	kJ/m ²	ISO 179/1eA
Thermal Properties			
Vicat B50	149	°C	ISO 306
HDT / A (1,8 MPa)	94	°C	ISO 75-1/-2
DSC (Melt Point)	170	°C	ISO 11357
Rheological Properties			
Melt Index (MVR)	7.5	cm ³ /10min	ISO 1133
MVR temperature	190	°C	-
MVR load	2.16	kg	-
Shrinkage (lengthwise, 24h)	2 - 2.4	%	ISO 294-4
Shrinkage (lateral, 24h)	1.9 - 2.3	%	ISO 294-4
Physical Properties			
Density	1410	kg/m ³	ISO 1183