

Technical Data Sheet



ALCOM MED PS 1000 04001

Base Polymer
Typical Applications

Polystyrene
various

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 <12

Properties	Value	Dimension	Based on Test Norm
Mechanical Properties			
Flexural Modulus	4000	MPa	ISO 178
Flexural Strength	75	MPa	ISO 178
Tensile Modulus	3800	MPa	ISO 527
Tensile Strength at Break	40	MPa	ISO 527
Tensile Elongation at Break	1.2	%	ISO 527
Impact Strength (Charpy, 23°C)	7.5	kJ/m²	ISO 179/1eU
Thermal Properties			
Vicat B50	102	°C	ISO 306
HDT / A (1,8 MPa)	86	°C	ISO 75-1/-2
Rheological Properties			
Melt Index (MVR)	3.5	cm³/10min	ISO 1133
MVR temperature	200	°C	-
MVR load	5	kg	-
Shrinkage (24h)	0.3 - 0.6	%	ISO 294-4
Physical Properties			
Density	1230	kg/m³	ISO 1183