

Technical Data Sheet



ALCOM MED PS 1000 04001

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Base Polymer Polystyrene
Typical Applications 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/m ²	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	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	1230	kg/m ³	ISO 1183

Liability Exclusion

These are guide values and not a specification. The test values mentioned are representative values only and not binding minimum or maximum figures. These test values have been determined on standardised test specimens and can be affected by pigmentation, mould design and processing conditions.

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