

Technical Data Sheet



ALTECH PS-HI A 1000/506

Base Polymer	Polystyrene, impact
Special Features	injection moulding grade
Market Segment	various
Application Area	various
Typical Applications	various

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
Processing Injection Moulding	melt temperature 180-260 °C mould temperature 10-70 °C
Storage	dry, protected from light

Properties	Value	Dimension	Test Norm
Mechanical Properties			
Flexural Modulus	1800	MPa	ISO 178
Flexural Stress (3.5% Strain)	36	MPa	ISO 178
Tensile Modulus	1600	MPa	ISO 527
Tensile Stress at Yield	20	MPa	ISO 527
Tensile Elongation at Yield	1.5	%	ISO 527
Tensile Elongation at Break	40	%	ISO 527
Impact Strength (Charpy, 23°C)	165	kJ/m ²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	125	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	12	kJ/m ²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	7.5	kJ/m ²	ISO 179/1eA
Thermal Properties			
Vicat B50	87	°C	ISO 306
HDT / A (1,8 MPa)	75	°C	ISO 75-1/-2
Rheological Properties			
Melt Index (MVR)	4	cm ³ /10min	ISO 1133
MVR temperature	200	°C	-
MVR load	5	kg	-
Shrinkage (24h)	0.5 - 0.8	%	ISO 294-4
Physical Properties			
Density	1030	kg/m ³	ISO 1183