

Technical Data Sheet



ALTECH PS-HI A 1000/901 FC WT1228-20

Base Polymer	Polystyrene, impact
Special Features	injection moulding grade,easy release (demoulding),food contact
Market Segment	electrical and electronic,building and construction,sport and leisure
Typical Applications	bezels,housings,profile,food contact

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
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Processing Injection Moulding	melt temperature 180-260 °C mould temperature 10-70 °C
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Storage	dry, protected from light
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Minimum Shelf Life	months <12
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Properties	Value	Dimension	Test Norm
Mechanical Properties			
Tensile Modulus	1800	MPa	ISO 527
Tensile Stress at Yield	25	MPa	ISO 527
Tensile Elongation at Yield	1.5	%	ISO 527
Tensile Elongation at Break	40	%	ISO 527
Impact Strength (Charpy, 23°C)	130	kJ/m ²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	85	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)	2.5	kJ/m ²	ISO 179/1eA
Thermal Properties			
Vicat B50	88	°C	ISO 306
HDT / A (1,8 MPa)	75	°C	ISO 75-1/-2
Rheological Properties			
Melt Index (MVR)	11	cm ³ /10min	ISO 1133
MVR temperature	200	°C	-
MVR load	5	kg	-
Shrinkage (lengthwise, 24h)	0.5 - 0.7	%	ISO 294-4
Shrinkage (lateral, 24h)	0.4 - 0.6	%	ISO 294-4
Physical Properties			
Density	1040	kg/m ³	ISO 1183