

Technical Data Sheet

**ALTECH PS-HI A 1000/901 WT1222-20**

Base Polymer	Polystyrene, impact
Special Features	easy release (demoulding), injection moulding grade
Market Segment	Automotive, electrical and electronic, building and construction
Application Area	injection moulded parts
Typical Applications	bezels, housings

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
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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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Properties	Value	Dimension	Test Norm
Mechanical Properties			
Tensile Modulus	1800	MPa	ISO 527
Tensile Stress at Yield	22	MPa	ISO 527
Tensile Elongation at Yield	1.1	%	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)	95	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23 °C)	7.5	kJ/m ²	ISO 179/1eA
Notched Impact Strength (Charpy, -40 °C)	2.5	kJ/m ²	ISO 179/1eA
Thermal Properties			
Vicat B50	87	°C	ISO 306
HDT / A (1,8 MPa)	73	°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 (24h)	0.3 - 0.7	%	ISO 294-4
Physical Properties			
Density	1040	kg/m ³	ISO 1183
Flammability			
Flammability (1.5 mm)	HB	class	UL 94