

Technical Data Sheet



ALTECH PS-HI A 1000/902 GY1231-20

Base Polymer	Polystyrene, impact
Special Features	easy release (demoulding), injection moulding grade
Market Segment	Automotive, electrical and electronic, Machinery
Application Area	injection moulded parts
Typical Applications	bezels, profile, 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
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			
Tensile Modulus	2200	MPa	ISO 527
Tensile Stress at Yield	23	MPa	ISO 527
Tensile Elongation at Yield	1.1	%	ISO 527
Tensile Elongation at Break	25	%	ISO 527
Impact Strength (Charpy, 23 °C)	30	kJ/m ²	ISO 179/1eU
Impact Strength (Charpy, -40 °C)	30	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23 °C)	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	80	°C	ISO 306
HDT / A (1,8 MPa)	70	°C	ISO 75-1/-2
Rheological Properties			
Melt Index (MVR)	15	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
Glow Wire (GWFI, 700 °C, 1.0mm)	passed	-	DIN EN 60695
Glow Wire (GWFI, 700 °C, 2.0mm)	passed	-	DIN EN 60695