

Technical Data Sheet



ALTECH PS A 1000/903 WT1259-20

Base Polymer	Polystyrene
Special Features	injection moulding grade, extrusion grade, easy release (demoulding)
Market Segment	electrical and electronic, building and construction, sport and leisure
Application Area	injection moulded parts, extruded parts, film
Typical Applications	bezels, housings, profile

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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Properties	Value	Dimension	Test Norm
Mechanical Properties			
Flexural Modulus	3600	MPa	ISO 178
Flexural Strength	100	MPa	ISO 178
Tensile Modulus	3300	MPa	ISO 527
Tensile Strength at Break	51	MPa	ISO 527
Tensile Elongation at Break	2	%	ISO 527
Impact Strength (Charpy, 23°C)	15	kJ/m²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	10	kJ/m²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	1.5	kJ/m²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	1	kJ/m²	ISO 179/1eA
Thermal Properties			
Vicat B50	101	°C	ISO 306
HDT / A (1,8 MPa)	84	°C	ISO 75-1/-2
Rheological Properties			
Melt Index (MVR)	4	cm³/10min	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	1060	kg/m³	ISO 1183
Flammability			
Flammability (1.5 mm)	HB	class	UL 94
Glow Wire (GWFI, 650 °C, 1.0mm)	passed	-	DIN EN 60695