

Technical Data Sheet



ALTECH PA66 A 1000/517.01 IM

Base Polymer	Polyamide 66
Colour	black
Special Features	heat stabilised,easy release (demoulding),easy flow,adhesion-modified to PVC
Market Segment	Automotive,electrical and electronic
Application Area	exterior parts,electrical and electronic (E&E),injection moulded parts,electrical components
Typical Applications	plugs / connectors,housings,different automotive powertrain parts

Pre-Drying Conditions	80 °C in a dry air (dessiccant) dryer for 2-12 h dependant on moisture content max. moisture content <0,15 %
Processing Injection Moulding	melt temperature 270-290 °C mould temperature 60-100 °C
Storage	dry, protected from light

Properties	Value	Dimension	Test Norm
Mechanical Properties			
Flexural Modulus	2450	MPa	ISO 178
Flexural Strength	95	MPa	ISO 178
Tensile Modulus	2500	MPa	ISO 527
Tensile Stress at Yield	65	MPa	ISO 527
Tensile Elongation at Yield	5	%	ISO 527
Tensile Elongation at Break	30	%	ISO 527
Impact Strength (Charpy, 23°C)	no break	kJ/m ²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	100	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	15	kJ/m ²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	7	kJ/m ²	ISO 179/1eA
Thermal Properties			
Vicat B50	220	°C	ISO 306
HDT / A (1,8 MPa)	70	°C	ISO 75-1/-2
DSC (Melt Point)	262	°C	ISO 11357
Rheological Properties			
Shrinkage (lengthwise, 24h)	2.7 - 3.1	%	ISO 294-4
Shrinkage (lateral, 24h)	1.8 - 2.2	%	ISO 294-4
Physical Properties			
Density	1130	kg/m ³	ISO 1183