

Technical Data Sheet



ALTECH PA6 A 2050/500 GF50 BK1267-20LS

Base Polymer	Polyamide 6
Filler/Additive System	50 % glass fibres
Special Features	heat stabilised,easy release (demoulding),injection moulding grade,laser etchable (light etching),easy flow
Market Segment	Automotive,Machinery,electrical and electronic,Furniture,building and construction,sport and leisure
Typical Applications	pedals

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

Properties	dry/cond.	Dimension	Test Norm
Mechanical Properties			
Flexural Modulus	15300 / 10400	MPa	ISO 178
Flexural Strength	330 / 215	MPa	ISO 178
Tensile Modulus	16900 / 10200	MPa	ISO 527
Tensile Strength at Break	215 / 140	MPa	ISO 527
Tensile Elongation at Break	3.1 / 4.5	%	ISO 527
Impact Strength (Charpy, 23°C)	85 / 90	kJ/m ²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	85 / -	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	14 / 20	kJ/m ²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	11 / -	kJ/m ²	ISO 179/1eA
Thermal Properties			
HDT / A (1,8 MPa)	217 / *	°C	ISO 75-1/-2
DSC (Melt Point)	220 / *	°C	ISO 11357
Rheological Properties			
Shrinkage (lengthwise, 24h)	0.1 - 0.3	%	ISO 294-4
Shrinkage (lateral, 24h)	0.3 - 0.5	%	ISO 294-4
Physical Properties			
Density	1580 / -	kg/m ³	ISO 1183