

Technical Data Sheet



ALTECH PA6 A 2040/508 GF40

Base Polymer	Polyamide 6
Filler/Additive System	40 % glass fibres
Special Features	high heat stabilised,easy release (demoulding),injection moulding grade,laser etchable
Market Segment	Automotive,electrical and electronic,sport and leisure
Application Area	electrical and electronic (E&E),electrical components,interior decoration / finishing,fuel systems,cooling system
Typical Applications	fixing elements,machinery components

Pre-Drying Conditions	in a dry air (dessiccant) dryer <80 °C for 2-12 h dependant on moisture content max. moisture content <0,15 %
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	11000 / 7000	MPa	ISO 178
Flexural Strength	265 / 180	MPa	ISO 178
Tensile Modulus	12000 / 7800	MPa	ISO 527
Tensile Strength at Break	175 / 120	MPa	ISO 527
Tensile Elongation at Break	2.8 / 5.5	%	ISO 527
Impact Strength (Charpy, 23°C)	80 / 85	kJ/m ²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	65 / -	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	11 / 18	kJ/m ²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	8.5 / -	kJ/m ²	ISO 179/1eA
Thermal Properties			
HDT / A (1,8 MPa)	214 / *	°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)	0.6 - 0.8	%	ISO 294-4
Physical Properties			
Density	1470 / -	kg/m ³	ISO 1183