

Technical Data Sheet



ALTECH PA66 A 2050/106 GF50

Base Polymer	Polyamide 66
Filler/Additive System	50 % glass fibres
Colour	black
Special Features	high heat stabilised, high stiffness, heat stabilised, improved surface
Market Segment	Automotive, Machinery
Application Area	injection moulded parts, engine and drive systems
Typical Applications	functional components, different automotive powertrain parts, seals

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 280-300 °C mould temperature 80-120 °C
Storage	dry, protected from light

Properties	dry/cond.	Dimension	Test Norm
Mechanical Properties			
Flexural Modulus	13700 / 8700	MPa	ISO 178
Flexural Strength	350 / 200	MPa	ISO 178
Tensile Modulus	15800 / 9500	MPa	ISO 527
Tensile Strength at Break	220 / 130	MPa	ISO 527
Tensile Elongation at Break	3 / 4.5	%	ISO 527
Impact Strength (Charpy, 23°C)	95 / 100	kJ/m ²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	95 / -	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	16 / 20	kJ/m ²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	12 / -	kJ/m ²	ISO 179/1eA
Thermal Properties			
HDT / A (1,8 MPa)	253 / *	°C	ISO 75-1/-2
DSC (Melt Point)	260 / *	°C	ISO 11357
Rheological Properties			
Shrinkage (lengthwise, 24h)	0.1 - 0.3	%	ISO 294-4
Shrinkage (lateral, 24h)	0.5 - 0.7	%	ISO 294-4
Physical Properties			
Density	1560 / -	kg/m ³	ISO 1183

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Diagrams

Stress-Strain

