Technical Data Sheet

Altech®

MOCOM

ALTECH PA6 A 2050/100 GF50

Base Polymer	Polyamide 6
Filler/Additive System	50 % glass fibres
Colour	black,natural color,grey
Special Features	heat stabilised,easy release (demoulding),injection moulding grade,nucleated,processing stabilised
Market Segment	Machinery,Automotive,electrical and electronic
Typical Applications	injection moulded parts,exterior parts,interior decoration / finishing,electrical components

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 80-100 °C
Storage	dry, protected from light

Properties	dry/cond.	Dimension	Test Norm
Mechanical Properties			
Flexural Modulus	14300 / 8850	MPa	ISO 178
Flexural Strength	325 / 205	MPa	ISO 178
Tensile Modulus	15500 / 9700	MPa	ISO 527
Tensile Strength at Break	195 / 130	MPa	ISO 527
Tensile Elongation at Break	2.9 / 4.5	%	ISO 527
Impact Strength (Charpy, 23°C)	85 / 90	kJ/m²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	85 / -	kJ/m²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	15 / 20	kJ/m²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	11 / -	kJ/m²	ISO 179/1eA
Thermal Properties			
HDT / A (1,8 MPa)	215 / *	°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)	0.2 - 0.4	%	ISO 294-4
Physical Properties			
Density	1550 / -	kg/m³	ISO 1183

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Diagrams

Stress-Strain