

Technical Data Sheet



ALTECH PA6 A 2050/720 GF50 UV

Base Polymer	Polyamide 6
Filler/Additive System	50 % glass fibres
Colour	black,blue,orange
Special Features	heat stabilised,highly UV stabilised,processing stabilised,nucleated,easy release (demoulding)
Market Segment	building and construction
Application Area	exterior parts,gardening tools,housings

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	14000 / -	MPa	ISO 178
Flexural Strength	265 / -	MPa	ISO 178
Tensile Modulus	15500 / -	MPa	ISO 527
Tensile Strength at Break	170 / -	MPa	ISO 527
Tensile Elongation at Break	2 / -	%	ISO 527
Impact Strength (Charpy, 23°C)	60 / -	kJ/m²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	55 / -	kJ/m²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	9 / -	kJ/m²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	7 / -	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)	0.3 - 0.5	%	ISO 294-4
Physical Properties			
Density	1570 / -	kg/m³	ISO 1183