

Technical Data Sheet



ALTECH PA6 A 2045/500 GF45

Base Polymer	Polyamide 6
Filler/Additive System	45 % glass fibres
Special Features	heat stabilised,fast solidifying,processing stabilised,easy release (demoulding),nucleated
Market Segment	Automotive,electrical and electronic
Application Area	functional components,housings,injection moulded parts

Pre-Drying Conditions	80 °C in a dry air (dessiccant) dryer for 2-12 h dependant on moisture content max. moisture content <0,15 %
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Processing Injection Moulding	melt temperature 270-290 °C mould temperature 80-100 °C
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Storage	dry, protected from light
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Properties	dry/cond.	Dimension	Test Norm
Mechanical Properties			
Flexural Modulus	13000 / 8300	MPa	ISO 178
Flexural Strength	290 / 205	MPa	ISO 178
Tensile Modulus	14000 / 9400	MPa	ISO 527
Tensile Strength at Break	190 / 130	MPa	ISO 527
Tensile Elongation at Break	2.5 / 5	%	ISO 527
Impact Strength (Charpy, 23°C)	75 / 80	kJ/m ²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	75 / -	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	15 / 20	kJ/m ²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	10 / -	kJ/m ²	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)	0.2 - 0.3	%	ISO 294-4
Shrinkage (lateral, 24h)	0.6 - 0.8	%	ISO 294-4
Physical Properties			
Density	1510 / -	kg/m ³	ISO 1183