



ALTECH PA6 A 2045/500 GF45

(Last update: 15.10.2024)



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 %
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	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/m²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	75 / -	kJ/m²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	15 / 20	kJ/m²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	10 / -	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)	0.2 - 0.3	%	ISO 294-4
Shrinkage (lateral, 24h)	0.6 - 0.8	%	ISO 294-4
Physical Properties			
Density	1510 / -	kg/m³	ISO 1183

Liability Exclusion

These are guide values and not a specification. The test values mentioned are representative values only and not binding minimum or maximum figures. These test values have been determined on standardised test specimens and can be affected by pigmentation, mould design and processing conditions.

Any information given on the chemical and physical characteristics of our products, including, without limitation, technical advice on



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