

ALTECH PA6 A 2040/508 GF40

(Last update: 07.12.2023)

MOCOM

Base Polymer	Polyamide 6
Filler/Additive System	40 % glass fibres
Special Features	high heat stabilised,easy release (demoulding),injection moulding grade,laser etchable
Market Segment	Automotive,electrical and electronic,sport and leisure
Application Area	electrical and electronic (E&E),electrical components,interior decoration / finishing,fuel systems,cooling system
Typical Applications	fixing elements,machinery components

Pre-Drying Conditions	in a dry air (dessiccant) dryer <80 °C 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	11000 / 7000	MPa	ISO 178
Flexural Strength	265 / 180	MPa	ISO 178
Tensile Modulus	12000 / 7800	MPa	ISO 527
Tensile Strength at Break	175 / 120	MPa	ISO 527
Tensile Elongation at Break	2.8 / 5.5	%	ISO 527
Impact Strength (Charpy, 23°C)	80 / 85	kJ/m ²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	65 / -	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	11 / 18	kJ/m ²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	8.5 / -	kJ/m ²	ISO 179/1eA
Thermal Properties			
HDT / A (1,8 MPa)	214 / *	°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)	0.6 - 0.8	%	ISO 294-4
Physical Properties			
Density	1470 / -	kg/m ³	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.



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