

## ALTECH PA66 A 2040/100.01 GF40

(Last update: 11.10.2016)

Base Polymer	Polyamide 66
Filler/Additive System	40 % glass fibres
Special Features	improved surface appearance,heat ageing stabilisation,high stiffness,injection moulding grade
Typical Applications	pedals,highly stressed parts

Pre-Drying Conditions      80 °C in a dry air (dessiccant) dryer  
for 2-12 h  
max. moisture content <0,15 %

Processing Conditions      injection moulding melt temperature 270-300 °C  
injection moulding mould temperature 80-120 °C

Properties	Value	Dimension	Test Norm
<b>Mechanical Properties</b>			
Flexural modulus	12000	MPa	ISO 178
Flexural strength	310	MPa	ISO 178
Tensile modulus	13000	MPa	ISO 527-1/-2
Tensile strength at break	205	MPa	ISO 527-1/-2
Tensile elongation at break	3	%	ISO 527-1/-2
Charpy notched impact 1eA	13	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy impact strength 1eU	90	kJ/m <sup>2</sup>	ISO 179/1eU
<b>Thermal Properties</b>			
Vicat B50	256	°C	ISO 306
HDT / A (1,8 MPa)	245	°C	ISO 75-1/-2
DSC (Melt Point)	265	°C	ISO 11357
<b>Electrical Properties</b>			
Surface resistance min	1E12	Ohm	IEC 60093
Specific volume resistance	1E15	Ohm*m	IEC 60093
<b>Rheological Properties</b>			
Shrinkage - lengthwise (24h)	≥0.2	%	ISO 294-4
Shrinkage - lateral (24h)	≥0.4	%	ISO 294-4
<b>Physical Properties</b>			
Density	1450	kg/m <sup>3</sup>	ISO 1183
Water absorption	5	%	Sim. to ISO 62

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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