

**ALTECH PA66 ECO 2050/500 GF50**

(Last update: 16.05.2024)

**MOCOM**

Base Polymer	Polyamide 66
Special Features	high stiffness, 50 % glass fibres
Market Segment	Automotive, Machinery, building and construction, various
Typical Applications	bearings and sliding elements, intake manifolds, various

Pre-Drying Conditions	80 °C in a dry air (dessiccant) dryer for 2-12 h dependant on moisture content 0,15 % max. moisture content
Processing Injection Moulding	melt temperature 280-300 °C mould temperature 80-120 °C
Storage	dry, protected from light

Properties	dry/cond.	Dimension	Test Norm
<b>Mechanical Properties</b>			
Flexural Modulus	14500 / -	MPa	ISO 178
Flexural Strength	290 / -	MPa	ISO 178
Tensile Modulus	15200 / 9200	MPa	ISO 527
Tensile Strength at Break	180 / 115	MPa	ISO 527
Tensile Elongation at Break	2.3 / 3.1	%	ISO 527
Impact Strength (Charpy, 23°C)	70 / 77	kJ/m <sup>2</sup>	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	10 / 14	kJ/m <sup>2</sup>	ISO 179/1eA
<b>Thermal Properties</b>			
HDT / A (1,8 MPa)	250 / *	°C	ISO 75-1/-2
<b>Rheological Properties</b>			
Shrinkage (lengthwise, 24h)	0.1 - 0.3	%	ISO 294-4
Shrinkage (lateral, 24h)	0.5 - 0.7	%	ISO 294-4
<b>Physical Properties</b>			
Density	1570 / -	kg/m <sup>3</sup>	ISO 1183
<b>Ecological Properties</b>			
Global Warming Potential (GWP)	1.02	kg CO <sub>2</sub> eq./kg	ISO 14040, 14044

**Additional Information**

When using raw materials from a recycling process, as with prime materials, ferrous / non-ferrous residues can never be completely excluded. To minimize the risk of possible effects of such residues, MOCOM uses extensive detection and separation systems in the production process of its compounds. However, even these quality assurance systems cannot guarantee that the resulting product is 100% free of such residues. Therefore, we recommend our customers to additionally use their own detection and separation systems adapted to their respective process. For further questions and specific advice in connection with MOCOM products, please do not hesitate to contact our application engineering department. The ecological properties listed in this document were calculated for a production in one of our European plants. Data for production in the United States or China can be provided by sending a request to the following address.



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### 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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- any bodily implant application for greater than 30 days
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