

ALCOM PA66 910/1 GF30 MO2

(Last update: 13.12.2022)

MOCOM

Base Polymer	Polyamide 66
Filler/Additive System	30 % glass fibres,molybdenum disulphide
Special Features	improved sliding / wear,heat stabilised
Market Segment	Automotive,Machinery
Application Area	gear wheels, roller bearings
Typical Applications	bearings and sliding elements,functional components

Pre-Drying Conditions 80 °C in a dry air (dessiccant) dryer
for 2-12 h
dependant on moisture content

Processing Injection Moulding melt temperature 280-300 °C
mould temperature 80-120 °C

Properties	dry/cond.	Dimension	Test Norm
Mechanical Properties			
Flexural Modulus	9200 / 6500	MPa	ISO 178
Flexural Strength	270 / 210	MPa	ISO 178
Tensile Modulus	10000 / 7500	MPa	ISO 527
Tensile Strength at Break	185 / 135	MPa	ISO 527
Tensile Elongation at Break	3 / 5.8	%	ISO 527
Impact Strength (Charpy, 23°C)	55 / 85	kJ/m ²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	45 / -	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	9 / 10	kJ/m ²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	8 / -	kJ/m ²	ISO 179/1eA
Thermal Properties			
HDT / A (1,8 MPa)	250 / *	°C	ISO 75-1/-2
DSC (Melt Point)	263 / *	°C	ISO 11357
Rheological Properties			
Shrinkage (lengthwise, 24h)	0.3 - 0.5	%	ISO 294-4
Shrinkage (lateral, 24h)	0.6 - 0.8	%	ISO 294-4
Physical Properties			
Density	1390 / -	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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