Technical Data Sheet





ALCOM PA66 910/1.1 AR10 CF10

(Last update: 17.03.2021)

MCOM

Base Polymer Polyamide 66

Filler/Additive System 10 % carbon fibres,10 % aramid

Special Features improved sliding / wear,heat stabilised,high stiffness,electrically

conductive, reduced surface resistivity

Market Segment Automotive, Machinery
Application Area injection moulded parts
Typical Applications functional components

Pre-Drying Conditions in a dry air (dessiccant) dryer <80 °C

for 2-12 h

dependant on moisture content

Processing Injection Moulding melt temperature 280-300 °C

mould temperature 80-120 °C

Storage dry, protected from light

Properties	Value	Dimension	Test Norm
Mechanical Properties			
Flexural Modulus	8000	MPa	ISO 178
Flexural Strength	200	MPa	ISO 178
Tensile Modulus	8300	MPa	ISO 527
Tensile Strength at Break	130	MPa	ISO 527
Tensile Elongation at Break	2	%	ISO 527
Impact Strength (Charpy, 23°C)	20	kJ/m²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	3.5	kJ/m²	ISO 179/1eA
Thermal Properties			
Vicat B50	250	°C	ISO 306
HDT / A (1,8 MPa)	240	°C	ISO 75-1/-2
DSC (Melt Point)	260	°C	ISO 11357
Electrical Properties			
Surface Resistance	500	Ohm	IEC 62631-3-2
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	1200	kg/m³	ISO 1183

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Tribologic Properties

Coefficient of Sliding Friction μ (pv = 5*1 MPa*m/s)	0.25	-	ASTM G 137
Coefficient of Sliding Friction μ H (pv = 5*1 MPa*m/s)	0.31	-	ASTM G 137
Specific Wear Rate ws (pv = 5*1 MPa*m/s)	0.37	E-6 mm ³ /Nm	ASTM G 137
Linear Wear Rate w (pv = 5*1 MPa*m/s)	6.7	μm/h	ASTM G 137

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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- risk class III applications according to EU directive 93/42/EEC
- any bodily implant application for greater than 30 days
- any critical component in any medical device that supports or sustains human life.

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