### **Technical Data Sheet**





## ALCOM PA66 910/1.1 CF10

(Last update: 24.08.2022)

# **M**COM

Base Polymer Polyamide 66
Filler/Additive System 10 % carbon fibres

Special Features electrically conductive, reduced surface resistivity, heat stabilised, high

stiffness

Market Segment Automotive, Machinery

Application Area various

Typical Applications bearings, functional components

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

for 2-12 h

max. moisture content <0,15 %

Processing Injection Moulding melt temperature 280-300 °C

mould temperature 80-120 °C

Storage dry, protected from light

Properties	dry/cond.	Dimension	Test Norm
Mechanical Properties			
Flexural Modulus	7400 / -	MPa	ISO 178
Flexural Strength	220 / -	MPa	ISO 178
Tensile Modulus	8100 / -	MPa	ISO 527
Tensile Strength at Break	155 / -	MPa	ISO 527
Tensile Elongation at Break	2.4 / -	%	ISO 527
Impact Strength (Charpy, 23°C)	30 / -	kJ/m²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	28 / -	kJ/m²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	4 / -	kJ/m²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	3 / -	kJ/m²	ISO 179/1eA
Thermal Properties			
HDT / A (1,8 MPa)	250 / *	°C	ISO 75-1/-2
DSC (Melt Point)	263 / *	°C	ISO 11357
Electrical Properties			
Surface Resistance	* / 700	Ohm	IEC 62631-3-2
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	1170 / -	kg/m³	ISO 1183

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Print Date: 2025-07-16 08:37:04

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#### **Tribologic Properties**

Coefficient of Sliding Friction $\mu$ (pv = 5*1 MPa*m/s)	0.26	-	ASTM G 137
Coefficient of Sliding Friction μH (pv = 5*1 MPa*m/s)	0.31	-	ASTM G 137
Specific Wear Rate ws (pv = 5*1 MPa*m/s)	0.33	E-6 mm <sup>3</sup> /Nm	ASTM G 137
Linear Wear Rate w (pv = 5*1 MPa*m/s)	5.9	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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- · 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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