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Technical Data Sheet

Alcom®

ALBIS

ALCOM PA66 910/1.1 CF40

M⁘COM

Base Polymer	Polyamide 66
Filler/Additive System	40 % carbon fibres
Special Features	electrically conductive,reduced surface resistivity,heat stabilised,high stiffness
Market Segment	Automotive,Machinery
Application Area	injection moulded parts
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	24500 / -	MPa	ISO 178
Flexural Strength	360 / -	MPa	ISO 178
Tensile Modulus	27000 / -	MPa	ISO 527
Tensile Strength at Break	245 / -	MPa	ISO 527
Tensile Elongation at Break	1.7 / -	%	ISO 527
Impact Strength (Charpy, 23°C)	60 / -	kJ/m²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	55 / -	kJ/m²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	8.5 / -	kJ/m²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	6.5 / -	kJ/m²	ISO 179/1eA
Thermal Properties			
HDT / A (1,8 MPa)	260 / *	°C	ISO 75-1/-2
DSC (Melt Point)	263 / *	°C	ISO 11357
Electrical Properties			
Surface Resistance	* / 25	Ohm	IEC 62631-3-2
Rheological Properties			
Shrinkage (lengthwise, 24h)	0.1 - 0.3	%	ISO 294-4
Shrinkage (lateral, 24h)	0.3 - 0.5	%	ISO 294-4
Physical Properties			
Density	1310 / -	kg/m³	ISO 1183