•=• Alcom[®] ALCOM PA66 910/1.1 CF10 PTFE10

(Last update: 20.10.2022)

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Base Polymer Filler/Additive System Special Features Market Segment Application Area Typical Applications	Polyamide 66 10 % carbon fibres,10 % PTFE improved sliding / wear,heat stabilised,electrically conductive,reduced surface resistivity Automotive,Machinery injection moulded parts 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	dry/cond.	Dimension	Test Norm
Mechanical Properties			
Flexural Modulus	7900 / -	MPa	ISO 178
Flexural Strength	230 / -	MPa	ISO 178
Tensile Modulus	9400 / -	MPa	ISO 527
Tensile Strength at Break	160 / -	MPa	ISO 527
Tensile Elongation at Break	3 / -	%	ISO 527
Impact Strength (Charpy, 23°C)	37 / -	kJ/m²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	31 / -	kJ/m²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	5 / -	kJ/m²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	3.5 / -	kJ/m²	ISO 179/1eA
Thermal Properties			
HDT / A (1,8 MPa)	251 / *	°C	ISO 75-1/-2
DSC (Melt Point)	262 / *	°Č	ISO 11357
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Electrical Properties			
Surface Resistance	* / 400	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	1230 / -	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)	0.3	-	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)	6.6	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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