Technical Data Sheet

Alcom®

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ALCOM PA66 910/1.1 CF10 PTFE20

(Last update: 16.03.2022)

M⚙COM

Base Polymer	Polyamide 66
Filler/Additive System	10 % carbon fibres,20 % PTFE
Special Features	improved sliding / wear,heat stabilised,reduced surface resistivity,electrically conductive
Market Segment	Automotive,Machinery
Application Area	injection moulded parts
Typical Applications	functional components,bearings and sliding elements

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
Storage	dry, protected from light

Properties	dry/cond.	Dimension	Test Norm
Mechanical Properties			
Flexural Modulus	9100 / 6200	MPa	ISO 178
Flexural Strength	220 / 155	MPa	ISO 178
Tensile Modulus	11000 / 7300	MPa	ISO 527
Tensile Strength at Break	155 / 110	MPa	ISO 527
Tensile Elongation at Break	2.4 / 4.1	%	ISO 527
Impact Strength (Charpy, 23°C)	40 / 50	kJ/m²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	35 / -	kJ/m²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	5.5 / 9	kJ/m²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	4 / -	kJ/m²	ISO 179/1eA
Thermal Properties			
HDT / A (1,8 MPa)	252 / *	°C	ISO 75-1/-2
DSC (Melt Point)	263 / *	°C	ISO 11357
Electrical Properties			
Surface Resistance	* / 500	Ohm	IEC 62631-3-2
Rheological Properties			
Shrinkage (lengthwise, 24h)	0.1 - 0.3	%	ISO 294-4
Shrinkage (lateral, 24h)	0.4 - 0.6	%	ISO 294-4
Physical Properties			
Density	1300 / -	kg/m³	ISO 1183

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