

Technical Data Sheet



ALCOM PA66 910/1 GF30 MO2

Base Polymer	Polyamide 66
Filler/Additive System	30 % glass fibres,molybdenium disulphide
Special Features	improved sliding / wear,heat stabilised
Market Segment	Automotive,Machinery
Application Area	gear wheels, roller bearings
Typical Applications	bearings and sliding elements,functional components

Pre-Drying Conditions	80 °C in a dry air (dessiccant) dryer for 2-12 h dependant on moisture content
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Processing Injection Moulding	melt temperature 280-300 °C mould temperature 80-120 °C
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Properties	dry/cond.	Dimension	Test Norm
Mechanical Properties			
Flexural Modulus	9200 / 6500	MPa	ISO 178
Flexural Strength	270 / 210	MPa	ISO 178
Tensile Modulus	10000 / 7500	MPa	ISO 527
Tensile Strength at Break	185 / 135	MPa	ISO 527
Tensile Elongation at Break	3 / 5.8	%	ISO 527
Impact Strength (Charpy, 23°C)	55 / 85	kJ/m ²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	45 / -	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	9 / 10	kJ/m ²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	8 / -	kJ/m ²	ISO 179/1eA
Thermal Properties			
HDT / A (1,8 MPa)	250 / *	°C	ISO 75-1/-2
DSC (Melt Point)	263 / *	°C	ISO 11357
Rheological Properties			
Shrinkage (lengthwise, 24h)	0.3 - 0.5	%	ISO 294-4
Shrinkage (lateral, 24h)	0.6 - 0.8	%	ISO 294-4
Physical Properties			
Density	1390 / -	kg/m ³	ISO 1183