Technical Data Sheet

Alcom®

MOCOM

ALCOM PA66 910/1 GF30 MO1

Base Polymer	Polyamide 66
Filler/Additive System	30 % glass fibres,1 % 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
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	8500 / -	MPa	ISO 178
Flexural Strength	265 / -	MPa	ISO 178
Tensile Modulus	9800 / -	MPa	ISO 527
Tensile Strength at Break	185 / -	MPa	ISO 527
Tensile Elongation at Break	3 / -	%	ISO 527
Impact Strength (Charpy, 23°C)	60 / -	kJ/m²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	50 / -	kJ/m²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	9 / -	kJ/m²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	7 / -	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
Rheological Properties			
Shrinkage (lengthwise, 24h)	0.2 - 0.4	%	ISO 294-4
Shrinkage (lateral, 24h)	0.7 - 0.9	%	ISO 294-4
Physical Properties			
Density	1370 / -	kg/m³	ISO 1183