

Technical Data Sheet



ALCOM PA6 900/1 MO1

Base Polymer	Polyamide 6
Filler/Additive System	1 % molybdenum disulphide
Special Features	improved sliding / wear, heat stabilised
Market Segment	Automotive, Machinery
Application Area	functional components, bearings and sliding elements

Pre-Drying Conditions	in a dry air (dessiccant) dryer <80 °C for 2-12 h dependant on moisture content
Processing Injection Moulding	melt temperature 250-270 °C mould temperature 40-80 °C
Storage	dry, protected from light

Properties	dry/cond.	Dimension	Test Norm
Mechanical Properties			
Flexural Modulus	3000 / -	MPa	ISO 178
Flexural Stress (3.5% Strain)	95 / -	MPa	ISO 178
Tensile Modulus	3500 / -	MPa	ISO 527
Tensile Stress at Yield	85 / -	MPa	ISO 527
Tensile Elongation at Yield	3.7 / -	%	ISO 527
Tensile Elongation at Break	15 / -	%	ISO 527
Impact Strength (Charpy, 23°C)	no break / -	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	4.5 / -	kJ/m ²	ISO 179/1eA
Thermal Properties			
HDT / A (1,8 MPa)	68 / *	°C	ISO 75-1/-2
DSC (Melt Point)	218 / *	°C	ISO 11357
Rheological Properties			
Shrinkage (lengthwise, 24h)	1.3 - 1.4	%	ISO 294-4
Shrinkage (lateral, 24h)	1.6 - 1.8	%	ISO 294-4
Physical Properties			
Density	1140 / -	kg/m ³	ISO 1183