

Technical Data Sheet



ALCOM PA6 900/1 GF30 MO2

Base Polymer	Polyamide 6
Filler/Additive System	30 % glass fibres, 2 % molybdenum 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 250-270 °C mould temperature 40-80 °C
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Storage	dry, protected from light
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Properties	dry/cond.	Dimension	Test Norm
Mechanical Properties			
Flexural Modulus	7900 / 5100	MPa	ISO 178
Flexural Strength	230 / 160	MPa	ISO 178
Tensile Modulus	9100 / 5600	MPa	ISO 527
Tensile Strength at Break	165 / 110	MPa	ISO 527
Tensile Elongation at Break	4 / 7.3	%	ISO 527
Impact Strength (Charpy, 23°C)	95 / 100	kJ/m ²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	65 / -	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	11 / 17	kJ/m ²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	8.5 / -	kJ/m ²	ISO 179/1eA
Thermal Properties			
HDT / A (1,8 MPa)	210 / *	°C	ISO 75-1/-2
DSC (Melt Point)	220 / *	°C	ISO 11357
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	1390 / -	kg/m ³	ISO 1183