

Technical Data Sheet



ALCOM PA66 910/1 MO2

Base Polymer	Polyamide 66
Filler/Additive System	2 % molybdenum disulphide
Special Features	improved sliding / wear, heat stabilised
Market Segment	Machinery, various
Application Area	bearings and sliding elements, functional components

Pre-Drying Conditions	in a dry air (dessiccant) dryer <80 °C for 2-12 h dependant on moisture content
Processing Injection Moulding	melt temperature 270-290 °C mould temperature 60-100 °C
Storage	dry, protected from light

Properties	dry/cond.	Dimension	Test Norm
Mechanical Properties			
Flexural Modulus	3150 / 1350	MPa	ISO 178
Flexural Stress (3.5% Strain)	100 / 37	MPa	ISO 178
Tensile Modulus	3500 / 1400	MPa	ISO 527
Tensile Stress at Yield	- / 58	MPa	ISO 527
Tensile Elongation at Yield	- / 19	%	ISO 527
Tensile Elongation at Break	10 / 125	%	ISO 527
Impact Strength (Charpy, 23°C)	no break / 1000	kJ/m ²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	100 / -	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	5 / 12	kJ/m ²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	3 / -	kJ/m ²	ISO 179/1eA
Thermal Properties			
HDT / A (1,8 MPa)	85 / *	°C	ISO 75-1/-2
DSC (Melt Point)	263 / *	°C	ISO 11357
Rheological Properties			
Shrinkage (lengthwise, 24h)	0.7 - 0.9	%	ISO 294-4
Shrinkage (lateral, 24h)	0.8 - 1	%	ISO 294-4
Physical Properties			
Density	1150 / -	kg/m ³	ISO 1183
Tribologic Properties			
Coefficient of Sliding Friction μ (pv = 2*1 MPa*m/s)	0.6	-	ASTM G 137
Specific Wear Rate ws (pv = 2*1 MPa*m/s)	3	E-6 mm ³ /Nm	ASTM G 137
Linear Wear Rate w (pv = 2*1 MPa*m/s)	21	μ m/h	ASTM G 137