

Technical Data Sheet



ALCOM PA46 920/1 PTFE15

Base Polymer	Polyamide 4.6
Filler/Additive System	15 % PTFE
Special Features	improved sliding / wear, heat stabilised
Market Segment	Machinery, Automotive
Application Area	various
Typical Applications	functional components, bearings and sliding elements

Pre-Drying Conditions	80 °C in a dry air (dessiccant) dryer for 2-12 h dependant on moisture content max. moisture content <0,01 %
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Processing Injection Moulding	melt temperature 305-320 °C mould temperature 40-100 °C
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Storage	dry, protected from light
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Properties	Value	Dimension	Test Norm
Mechanical Properties			
Flexural Modulus	2800	MPa	ISO 178
Flexural Strength	110	MPa	ISO 178
Tensile Modulus	2700	MPa	ISO 527
Tensile Stress at Yield	60	MPa	ISO 527
Tensile Elongation at Yield	2.5	%	ISO 527
Impact Strength (Charpy, 23°C)	25	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	4	kJ/m ²	ISO 179/1eA
Thermal Properties			
Vicat B50	275	°C	ISO 306
HDT / A (1,8 MPa)	90	°C	ISO 75-1/-2
Rheological Properties			
Shrinkage (lengthwise, 24h)	1.7 - 2	%	ISO 294-4
Shrinkage (lateral, 24h)	1.7 - 2	%	ISO 294-4
Physical Properties			
Density	1270	kg/m ³	ISO 1183