

Technical Data Sheet



ALCOM PA66 910/1 PTFE20

Base Polymer	Polyamide 66
Filler/Additive System	20 % PTFE
Special Features	improved sliding / wear
Market Segment	Automotive, Machinery
Application Area	injection moulded parts
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
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	2700 / -	MPa	ISO 178
Flexural Stress (3.5% Strain)	85 / -	MPa	ISO 178
Tensile Modulus	2900 / -	MPa	ISO 527
Tensile Strength	70 / -	MPa	ISO 527
Tensile Elongation at Break	6.3 / -	%	ISO 527
Impact Strength (Charpy, 23°C)	70 / -	kJ/m ²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	55 / -	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	3.5 / -	kJ/m ²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	3.5 / -	kJ/m ²	ISO 179/1eA
Thermal Properties			
HDT / A (1,8 MPa)	70 / *	°C	ISO 75-1/-2
DSC (Melt Point)	260 / *	°C	ISO 11357
Rheological Properties			
Shrinkage (lengthwise, 24h)	1.4 - 1.8	%	ISO 294-4
Shrinkage (lateral, 24h)	1.8 - 2.2	%	ISO 294-4
Physical Properties			
Density	1250 / -	kg/m ³	ISO 1183

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Diagrams

Stress-Strain

