

Technical Data Sheet



ALCOM PA6 900/1 PTFE10 IM

Base Polymer	Polyamide 6
Filler/Additive System	10 % PTFE
Special Features	heat stabilised, impact modified, improved sliding / wear
Market Segment	Automotive, Machinery
Application Area	functional components

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

Properties	dry/cond.	Dimension	Test Norm
Mechanical Properties			
Flexural Modulus	2200 / 800	MPa	ISO 178
Flexural Stress (3.5% Strain)	68 / 22	MPa	ISO 178
Tensile Modulus	2400 / 850	MPa	ISO 527
Tensile Stress at Yield	58 / 35	MPa	ISO 527
Tensile Elongation at Yield	3.9 / 20	%	ISO 527
Tensile Elongation at Break	15 / 100	%	ISO 527
Impact Strength (Charpy, 23°C)	140 / 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)	6.5 / 15	kJ/m ²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	4.5 / -	kJ/m ²	ISO 179/1eA
Thermal Properties			
HDT / A (1,8 MPa)	58 / *	°C	ISO 75-1/-2
DSC (Melt Point)	220 / *	°C	ISO 11357
Rheological Properties			
Shrinkage (lengthwise, 24h)	1.3 - 1.7	%	ISO 294-4
Shrinkage (lateral, 24h)	1.5 - 1.9	%	ISO 294-4
Physical Properties			
Density	1160 / -	kg/m ³	ISO 1183