

Technical Data Sheet



ALCOM PA6 900/1 GF30 TF15 SI2

Base Polymer	Polyamide 6
Filler/Additive System	30 % glass fibres, 15 % PTFE, 2 % silicone
Special Features	improved sliding / wear, heat stabilised
Market Segment	Automotive, Machinery
Typical Applications	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 80-100 °C
Storage	dry, protected from light

Properties	dry/cond.	Dimension	Test Norm
Mechanical Properties			
Flexural Modulus	8100 / -	MPa	ISO 178
Flexural Strength	200 / -	MPa	ISO 178
Tensile Modulus	9100 / -	MPa	ISO 527
Tensile Strength at Break	145 / -	MPa	ISO 527
Tensile Elongation at Break	3.1 / -	%	ISO 527
Impact Strength (Charpy, 23°C)	60 / -	kJ/m ²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	50 / -	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	12 / -	kJ/m ²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	8 / -	kJ/m ²	ISO 179/1eA
Thermal Properties			
HDT / A (1,8 MPa)	205 / *	°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)	0.3 - 0.5	%	ISO 294-4
Physical Properties			
Density	1480 / -	kg/m ³	ISO 1183