

Technical Data Sheet



ALCOM PA6 900/1 CF10 GF25 IM

Base Polymer	Polyamide 6
Filler/Additive System	10 % carbon fibres, 25 % glass fibres
Special Features	electrostatically dissipating, reduced surface resistivity, impact modified, easy release (demoulding)
Market Segment	Automotive, Machinery
Application Area	injection moulded parts
Typical Applications	bearings, functional components

Pre-Drying Conditions	80 °C in a dry air (dessiccant) dryer for 2-12 h max. moisture content <0,15 %
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	11500 / -	MPa	ISO 178
Flexural Strength	230 / -	MPa	ISO 178
Tensile Modulus	13000 / -	MPa	ISO 527
Tensile Strength at Break	150 / -	MPa	ISO 527
Tensile Elongation at Break	3 / -	%	ISO 527
Impact Strength (Charpy, 23°C)	70 / -	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	18 / -	kJ/m ²	ISO 179/1eA
Thermal Properties			
HDT / A (1,8 MPa)	210 / *	°C	ISO 75-1/-2
DSC (Melt Point)	220 / *	°C	ISO 11357
Electrical Properties			
Surface Resistance	* / 500	Ohm	IEC 62631-3-2
Rheological Properties			
Shrinkage (lengthwise, 24h)	0.1 - 0.3	%	ISO 294-4
Shrinkage (lateral, 24h)	0.4 - 0.6	%	ISO 294-4
Physical Properties			
Density	1310 / -	kg/m ³	ISO 1183