

Technical Data Sheet



ALCOM PA6 900/1 GF10 GB20

Base Polymer	Polyamide 6
Filler/Additive System	10 % glass fibres, 20 % glass beads
Special Features	heat stabilised, low warpage
Market Segment	Automotive, Machinery
Application Area	various

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	5000 / 2400	MPa	ISO 178
Flexural Stress (3.5% Strain)	- / 62	MPa	ISO 178
Flexural Strength	155 / -	MPa	ISO 178
Tensile Modulus	5500 / 2200	MPa	ISO 527
Tensile Strength at Break	100 / 64	MPa	ISO 527
Tensile Elongation at Break	3.1 / 12	%	ISO 527
Impact Strength (Charpy, 23 °C)	34 / 100	kJ/m ²	ISO 179/1eU
Impact Strength (Charpy, -40 °C)	30 / -	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23 °C)	5 / 9	kJ/m ²	ISO 179/1eA
Notched Impact Strength (Charpy, -40 °C)	4 / -	kJ/m ²	ISO 179/1eA
Thermal Properties			
HDT / A (1,8 MPa)	194 / *	°C	ISO 75-1/-2
DSC (Melt Point)	221 / *	°C	ISO 11357
Rheological Properties			
Shrinkage (lengthwise, 24h)	0.5 - 0.7	%	ISO 294-4
Shrinkage (lateral, 24h)	0.9 - 1.1	%	ISO 294-4
Physical Properties			
Density	1340 / -	kg/m ³	ISO 1183