

Technical Data Sheet



ALCOM PA6 900/1 GF20 SV1180-10MCF

Base Polymer	Polyamide 6
Filler/Additive System	20 % glass fibres
Special Features	metallic effect, low tendency to flow lines
Market Segment	Automotive, Machinery, electrical and electronic
Typical Applications	housings

Pre-Drying Conditions	in a dry air (dessiccant) dryer >80 °C for 2-12 h dependant on moisture content
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Processing Injection Moulding	melt temperature 270-290 °C mould temperature 80-100 °C
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Properties	dry/cond.	Dimension	Test Norm
Mechanical Properties			
Flexural Modulus	6000 / -	MPa	ISO 178
Flexural Strength	185 / -	MPa	ISO 178
Tensile Modulus	7200 / -	MPa	ISO 527
Tensile Strength at Break	115 / -	MPa	ISO 527
Tensile Elongation at Break	3 / -	%	ISO 527
Impact Strength (Charpy, 23°C)	40 / -	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	6.5 / -	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)	0.2 - 0.4	%	ISO 294-4
Shrinkage (lateral, 24h)	0.5 - 0.8	%	ISO 294-4
Physical Properties			
Density	1320 / -	kg/m ³	ISO 1183