

Technical Data Sheet



ALCOM PA6 900/8 GF10 MR20 SV12-778MCF

Base Polymer	Polyamide 6
Filler/Additive System	30 % glass fibre/mineral
Colour	metallic effect
Special Features	low warpage, heat stabilised, flow line optimised, low tendency to flow lines
Market Segment	Automotive, various
Application Area	engine and drive systems
Typical Applications	engine cover

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	6000 / -	MPa	ISO 178
Flexural Strength	150 / -	MPa	ISO 178
Tensile Modulus	6400 / -	MPa	ISO 527
Tensile Strength at Break	90 / -	MPa	ISO 527
Tensile Elongation at Break	2.6 / -	%	ISO 527
Impact Strength (Charpy, 23°C)	45 / -	kJ/m ²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	40 / -	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	5 / -	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)	185 / *	°C	ISO 75-1/-2
DSC (Melt Point)	220 / *	°C	ISO 11357
Rheological Properties			
Shrinkage (lengthwise, 24h)	0.3 - 0.5	%	ISO 294-4
Shrinkage (lateral, 24h)	0.4 - 0.6	%	ISO 294-4
Physical Properties			
Density	1440 / -	kg/m ³	ISO 1183