

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