

Technical Data Sheet



ALCOM PA6 900/8 GF10 MR20 IM

Base Polymer	Polyamide 6
Filler/Additive System	10 % glass fibres, 20 % mineral
Special Features	heat stabilised, low warpage, improved surface appearance, impact modified
Market Segment	Automotive, Machinery
Application Area	housings, functional components

Pre-Drying Conditions	in a dry air (dessiccant) dryer <80 °C 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 / 3100	MPa	ISO 178
Flexural Strength	132 / 77	MPa	ISO 178
Tensile Modulus	6800 / 3400	MPa	ISO 527
Tensile Strength at Break	82 / 50	MPa	ISO 527
Tensile Elongation at Break	2.8 / 11	%	ISO 527
Impact Strength (Charpy, 23°C)	45 / 57	kJ/m ²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	55 / -	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	7.5 / 11	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)	196 / *	°C	ISO 75-1/-2
DSC (Melt Point)	221 / *	°C	ISO 11357
Rheological Properties			
Shrinkage (lengthwise, 24h)	0.2 - 0.4	%	ISO 294-4
Shrinkage (lateral, 24h)	0.6 - 0.8	%	ISO 294-4
Physical Properties			
Density	1330 / -	kg/m ³	ISO 1183