

Technical Data Sheet



ALCOM PA6 900/1 GF30 TF15 SI2 IM

MOCOM

Base Polymer	Polyamide 6
Filler/Additive System	30 % glass fibres, 17 % PTFE/Silicone
Special Features	high stiffness, heat stabilised, improved sliding / wear
Market Segment	Automotive, Machinery
Typical Applications	functional components

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	6100 / -	MPa	ISO 178
Flexural Strength	125 / -	MPa	ISO 178
Tensile Modulus	7700 / -	MPa	ISO 527
Tensile Strength at Break	95 / -	MPa	ISO 527
Tensile Elongation at Break	3.9 / -	%	ISO 527
Impact Strength (Charpy, 23°C)	55 / -	kJ/m²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	55 / -	kJ/m²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	20 / -	kJ/m²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	11 / -	kJ/m²	ISO 179/1eA
Thermal Properties			
HDT / A (1,8 MPa)	203 / *	°C	ISO 75-1/-2
DSC (Melt Point)	223 / *	°C	ISO 11357
Electrical Properties			
Surface Resistance	1E12	Ohm	DIN EN 62631-3-2
Rheological Properties			
Shrinkage (lengthwise, 24h)	0.1 - 0.3	%	ISO 294-4
Shrinkage (lateral, 24h)	0.3 - 0.5	%	ISO 294-4
Physical Properties			
Density	1420 / -	kg/m³	ISO 1183