Technical Data Sheet

Alcom®

MOCOM

ALCOM PA6 900/5 CF/MR BK12-966

Base Polymer	Polyamide 6
Filler/Additive System	10 % carbon fibres,15 % mineral
Special Features	electrically conductive,reduced surface resistivity,low warpage,heat stabilised
Market Segment	Automotive,Machinery
Application Area	injection moulded parts
Typical Applications	electrostatic powder coating

Pre-Drying Conditions	80 °C in a dry air (dessiccant) dryer for 2-12 h max. moisture content <0,15 %
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	10000 / -	MPa	ISO 178
Flexural Strength	210 / -	MPa	ISO 178
Tensile Modulus	12000 / -	MPa	ISO 527
Tensile Strength at Break	150 / -	MPa	ISO 527
Tensile Elongation at Break	2.4 / -	%	ISO 527
Impact Strength (Charpy, 23°C)	45 / -	kJ/m²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	42 / -	kJ/m²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	5.5 / -	kJ/m²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	3.5 / -	kJ/m²	ISO 179/1eA
Thermal Properties			
HDT / A (1,8 MPa)	205 / *	°C	ISO 75-1/-2
DSC (Melt Point)	220 / *	°C	ISO 11357
Electrical Properties			
Surface Resistance	* / 400	Ohm	IEC 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	1290 / -	kg/m³	ISO 1183