

Technical Data Sheet



ALCOM PA6 900/5.2 CF/MR25

(Last update: 06.12.2023)



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	9500 / -	MPa	ISO 178
Flexural Strength	210 / -	MPa	ISO 178
Tensile Modulus	12000 / -	MPa	ISO 527
Tensile Strength at Break	145 / -	MPa	ISO 527
Tensile Elongation at Break	2.1 / -	%	ISO 527
Impact Strength (Charpy, 23°C)	40 / -	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)	210 / *	°C	ISO 75-1/-2
DSC (Melt Point)	220 / *	°C	ISO 11357
Electrical Properties			
Surface Resistance	* / 500	Ohm	IEC 62631-3-2
Rheological Properties			
Shrinkage (lengthwise, 24h)	0.2 - 0.5	%	ISO 294-4
Shrinkage (lateral, 24h)	0.6 - 0.9	%	ISO 294-4
Physical Properties			
Density	1300 / -	kg/m ³	ISO 1183



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