

Technical Data Sheet



ALCOM PA66 910/1.1 CF20

Base Polymer	Polyamide 66
Filler/Additive System	20 % carbon fibres
Special Features	heat stabilised, electrically conductive, high stiffness, injection moulding grade
Market Segment	Automotive, Machinery
Application Area	various
Typical Applications	bearings, functional components

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 280-300 °C mould temperature 80-120 °C
Storage	dry, protected from light

Properties	dry/cond.	Dimension	Test Norm
Mechanical Properties			
Flexural Modulus	13200 / 10000	MPa	ISO 178
Flexural Strength	310 / 230	MPa	ISO 178
Tensile Modulus	14200 / 10700	MPa	ISO 527
Tensile Strength at Break	220 / 155	MPa	ISO 527
Tensile Elongation at Break	2.6 / 4.8	%	ISO 527
Impact Strength (Charpy, 23°C)	60 / 75	kJ/m ²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	45 / -	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	6 / 10	kJ/m ²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	5 / -	kJ/m ²	ISO 179/1eA
Thermal Properties			
HDT / A (1,8 MPa)	255 / *	°C	ISO 75-1/-2
DSC (Melt Point)	266 / *	°C	ISO 11357
Electrical Properties			
Surface Resistance	* / 50	Ohm	IEC 62631-3-2
Rheological Properties			
Shrinkage (lengthwise, 24h)	0.1 - 0.3	%	ISO 294-4
Shrinkage (lateral, 24h)	0.5 - 0.7	%	ISO 294-4
Physical Properties			
Density	1220 / -	kg/m ³	ISO 1183