

Technical Data Sheet



ALCOM PPA 930/2 CF40

Base Polymer	Polyphthalamide
Filler/Additive System	40 % carbon fibres
Special Features	electrically conductive, reduced surface resistivity, high stiffness, processing stabilised
Market Segment	Automotive, Machinery
Application Area	injection moulded parts
Typical Applications	functional components, housings

Pre-Drying Conditions	in a dry air (dessiccant) dryer 110-130 °C for 4-8 h max. moisture content <0,10 %
Processing Injection Moulding	melt temperature 320-345 °C mould temperature 135-145 °C
Storage	dry, protected from light

Properties	Value	Dimension	Test Norm
Mechanical Properties			
Flexural Modulus	25000	MPa	ISO 178
Flexural Strength	385	MPa	ISO 178
Tensile Modulus	34000	MPa	ISO 527
Tensile Strength at Break	295	MPa	ISO 527
Tensile Elongation at Break	1.2	%	ISO 527
Impact Strength (Charpy, 23°C)	50	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	6	kJ/m ²	ISO 179/1eA
Thermal Properties			
HDT / A (1,8 MPa)	288	°C	ISO 75-1/-2
DSC (Melt Point)	315	°C	ISO 11357
Electrical Properties			
Surface Resistance	20	Ohm	IEC 62631-3-2
Rheological Properties			
Shrinkage (lengthwise, 24h)	0.1 - 0.2	%	ISO 294-4
Shrinkage (lateral, 24h)	0.4 - 0.6	%	ISO 294-4
Physical Properties			
Density	1370	kg/m ³	ISO 1183