

Technical Data Sheet



ALCOM PA66 910/32.1 TCE5 BK1152-08

Base Polymer	Polyamide 66
Filler/Additive System	special filler
Special Features	thermal conductive,electrically conductive,heat stabilised
Market Segment	Automotive,Machinery,electrical and electronic,Lighting
Application Area	electrical components,radiator systems,cooling system
Typical Applications	housings,functional components

Pre-Drying Conditions	80 °C in a dry air (dessiccant) dryer for 2-12 h max. moisture content <0,12 %
Processing Injection Moulding	melt temperature 300-320 °C mould temperature 100-130 °C
Storage	dry, protected from light

Properties	Value	Dimension	Test Norm
Mechanical Properties			
Flexural Modulus	6500	MPa	ISO 178
Flexural Strength	80	MPa	ISO 178
Tensile Modulus	6000	MPa	ISO 527
Tensile Strength at Break	50	MPa	ISO 527
Tensile Elongation at Break	1.5	%	ISO 527
Impact Strength (Charpy, 23°C)	10	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	2.5	kJ/m ²	ISO 179/1eA
Thermal Properties			
HDT / A (1,8 MPa)	220	°C	ISO 75-1/-2
DSC (Melt Point)	263	°C	ISO 11357
Thermal Conductivity (Integral)	4.5	W/(m K)	ISO 22007-2
Thermal Conductivity (in-plane)	8.0	W/(m K)	ASTM E 1461
Thermal Conductivity (through-plane)	2.0	W/(m K)	ASTM E 1461
Specific Heat Capacity	1.45	J/(g K)	-
Electrical Properties			
Surface Resistance	5000	Ohm	IEC 62631-3-2
Rheological Properties			
Shrinkage (lengthwise, 24h)	0.6 - 0.9	%	ISO 294-4
Shrinkage (lateral, 24h)	0.6 - 0.9	%	ISO 294-4
Physical Properties			
Density	1340	kg/m ³	ISO 1183
Flammability			
Flammability (3.0 mm)	V-0	class	UL 94
Glow Wire (GWFI, 960 °C, 1.0mm)	passed	-	DIN EN 60695