Technical Data Sheet

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ALCOM PA66 910/32.1 GF8 TCE8

(Last update: 17.04.2023)

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Base Polymer	Polyamide 66
Filler/Additive System	special filler,8 % glass fibres
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	130 °C in a dry air (dessiccant) dryer for 2-4 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	dry/cond.	Dimension	Test Norm
Mechanical Properties			
Flexural Modulus	11700 / -	MPa	ISO 178
Flexural Strength	88 / -	MPa	ISO 178
Tensile Modulus	10400 / -	MPa	ISO 527
Tensile Strength at Break	53 / -	MPa	ISO 527
Tensile Elongation at Break	0.7 / -	%	ISO 527
Impact Strength (Charpy, 23°C)	6 / -	kJ/m²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	2 / -	kJ/m²	ISO 179/1eA
Thermal Properties			
HDT / A (1,8 MPa)	245 / *	°C	ISO 75-1/-2
DSC (Melt Point)	262 / *	°C	ISO 11357
Coeff. of Linear Therm. Expansion (parallel)	2 / *	E-6/K	ISO 11359-1/-2
Coeff. of Linear Therm. Expansion (normal)	0.52 / *	E-6/K	ISO 11359-1/-2
Thermal Conductivity (Integral)	8.0	W/(m K)	ISO 22007-2
Thermal Conductivity (in-plane)	18.0	W/(m K)	ASTM E 1461
Thermal Conductivity (through-plane)	5.0	W/(m K)	ASTM E 1461
Specific Heat Capacity	1.5	J/(g K)	-
Electrical Properties			
Surface Resistance	* / 150	Ohm	IEC 62631-3-2
Rheological Properties			
Shrinkage (lengthwise, 24h)	0.3 - 0.5	%	ISO 294-4
Shrinkage (lateral, 24h)	0.3 - 0.5	%	ISO 294-4

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Physical Properties			
Density	1510 / -	kg/m³	ISO 1183
Flammability			
Flammability (3.0 mm)	V-0 / *	class	UL 94
Glow Wire (GWFI, 960°C, 1.0mm)	passed	-	DIN EN 60695

Liability Exclusion

These are guide values and not a specification. The test values mentioned are representative values only and not binding minimum or maximum figures. These test values have been determined on standardised test specimens and can be affected by pigmentation, mould design and processing conditions.

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