Alcom®

ALBIS

ALCOM PA66 910/32.1 TCE2 BK1282-10

(Last update: 27.10.2022)

M COM

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	dry/cond.	Dimension	Test Norm
Mechanical Properties			
Flexural Modulus	3700 / -	MPa	ISO 178
Flexural Strength	70 / -	MPa	ISO 178
Tensile Modulus	3300 / -	MPa	ISO 527
Tensile Strength	45 / -	MPa	ISO 527
Tensile Elongation at Break	3 / -	%	ISO 527
Impact Strength (Charpy, 23°C)	18 / -	kJ/m²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	4 / -	kJ/m²	ISO 179/1eA
Thermal Properties			
HDT / A (1,8 MPa)	84 / *	°C	ISO 75-1/-2
DSC (Melt Point)	263 / *	°C	ISO 11357
Thermal Conductivity (Integral)	2.0	W/(m K)	ISO 22007-2
Thermal Conductivity (in-plane)	5.1	W/(m K)	ASTM E 1461
Thermal Conductivity (through-plane)	2.0	W/(m K)	ASTM E 1461
Specific Heat Capacity	1.7	J/(g K)	-
Electrical Properties			
Surface Resistance	* / 10000	Ohm	IEC 62631-3-2
Tracking Resistance (CTI)	600 / -	-	IEC 60112
Rheological Properties			
Shrinkage (lengthwise, 24h)	1.3 - 1.4	%	ISO 294-4
Shrinkage (lateral, 24h)	1.4 - 1.6	%	ISO 294-4

ALCOM PA66 910/32.1 TCE2 BK1282-10

(Last update: 27.10.2022)

Physical Properties

Density	1230 / -	kg/m³	ISO 1183

Flammability

Flammability (3.0 mm)	HB / *	class	UL 94
Glow Wire (GWFI, 850 °C, 2.0mm)	passed	-	DIN EN 60695