

## ALCOM PA66 910/32.1 TCE5 BK1152-08

(Last update: 06.12.2023)

### MOCOM

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
<b>Mechanical Properties</b>			
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 <sup>2</sup>	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	2.5	kJ/m <sup>2</sup>	ISO 179/1eA
<b>Thermal Properties</b>			
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)	-
<b>Electrical Properties</b>			
Surface Resistance	5000	Ohm	IEC 62631-3-2
<b>Rheological Properties</b>			
Shrinkage (lengthwise, 24h)	0.6 - 0.9	%	ISO 294-4
Shrinkage (lateral, 24h)	0.6 - 0.9	%	ISO 294-4
<b>Physical Properties</b>			
Density	1340	kg/m <sup>3</sup>	ISO 1183



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### Flammability

Flammability (3.0 mm)

V-0

class

UL 94

Glow Wire (GWFI, 960 °C, 1.0mm)

passed

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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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