

## ALCOM POM 770/1.1 CF10

(Last update: 07.06.2024)

### MOCOM

Base Polymer	Polyoxymethylene Copolymer
Filler/Additive System	10 % carbon fibres
Special Features	electrically conductive, reduced surface resistivity
Market Segment	Automotive, Machinery
Application Area	injection moulded parts
Typical Applications	functional components, bearings

Pre-Drying Conditions	in a dry air (dessiccant) dryer 100-110 °C for 2-3 h in an air circulating dryer 100-110 °C for 3-5 h max. moisture content <0,02 %
Processing Injection Moulding	melt temperature 190-230 °C mould temperature 60-120 °C
Storage	dry, protected from light

Properties	Value	Dimension	Test Norm
<b>Mechanical Properties</b>			
Flexural Modulus	7500	MPa	ISO 178
Flexural Strength	95	MPa	ISO 178
Tensile Modulus	8500	MPa	ISO 527
Tensile Stress at Yield	62	MPa	ISO 527
Tensile Elongation at Yield	1	%	ISO 527
Tensile Elongation at Break	5.3	%	ISO 527
Impact Strength (Charpy, 23°C)	40	kJ/m <sup>2</sup>	ISO 179/1eU
Impact Strength (Charpy, -40°C)	32	kJ/m <sup>2</sup>	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	5	kJ/m <sup>2</sup>	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	4	kJ/m <sup>2</sup>	ISO 179/1eA
<b>Thermal Properties</b>			
Vicat B50	151	°C	ISO 306
HDT / A (1,8 MPa)	160	°C	ISO 75-1/-2
DSC (Melt Point)	172	°C	ISO 11357
<b>Electrical Properties</b>			
Surface Resistance	100	Ohm	IEC 62631-3-2
<b>Rheological Properties</b>			
Melt Index (MVR)	4	cm <sup>3</sup> /10min	ISO 1133
MVR temperature	190	°C	-
MVR load	2.16	kg	-

## Technical Data Sheet



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Shrinkage (lengthwise, 24h)	0.8 - 1	%	ISO 294-4
Shrinkage (lateral, 24h)	1 - 1.2	%	ISO 294-4

#### Physical Properties

Density	1420	kg/m <sup>3</sup>	ISO 1183
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#### 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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