

ALCOM POM 770/1.1 CF20

(Last update: 14.04.2022)

MOCOM

Base Polymer	Polyoxymethylene Copolymer
Filler/Additive System	20 % carbon fibres
Special Features	electrically conductive, reduced surface resistivity, high stiffness
Market Segment	Automotive, Machinery
Application Area	various
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
Mechanical Properties			
Flexural Modulus	11500	MPa	ISO 178
Flexural Strength	100	MPa	ISO 178
Tensile Modulus	14500	MPa	ISO 527
Tensile Strength at Break	65	MPa	ISO 527
Tensile Elongation at Break	0.6	%	ISO 527
Impact Strength (Charpy, 23 °C)	12	kJ/m ²	ISO 179/1eU
Impact Strength (Charpy, -40 °C)	12	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23 °C)	4.5	kJ/m ²	ISO 179/1eA
Notched Impact Strength (Charpy, -40 °C)	4	kJ/m ²	ISO 179/1eA
Thermal Properties			
Vicat B50	156	°C	ISO 306
HDT / A (1,8 MPa)	155	°C	ISO 75-1/-2
DSC (Melt Point)	170	°C	ISO 11357
Electrical Properties			
Surface Resistance	50	Ohm	IEC 62631-3-2
Rheological Properties			
Melt Index (MVR)	2	cm ³ /10min	ISO 1133
MVR temperature	190	°C	-
MVR load	2.16	kg	-
Shrinkage (lengthwise, 24h)	0.1 - 0.3	%	ISO 294-4



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Shrinkage (lateral, 24h)	0.3 - 0.5	%	ISO 294-4
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Physical Properties

Density	1460	kg/m ³	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.

Any information given on the chemical and physical characteristics of our products, including, without limitation, technical advice on applications, whether verbally, in writing or by testing the product, is given to the best of our knowledge and in good faith and does not exempt the buyer from carrying out their own investigations and tests in order to ascertain the product's specific suitability for the purpose intended.

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