

ALCOM POM 770/1 AR10 PTFE10

(Last update: 21.10.2016)

Base Polymer	Polyoxymethylene Copolymer
Filler/Additive System	20 % PTFE/Aramid
Special Features	improved sliding / wear
Market Segment	Automotive, Machinery
Application Area	gear wheels, roller bearings
Typical Applications	functional components, bearings and sliding elements

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
 dependant on moisture content

Processing Conditions injection moulding melt temperature 190-230 °C
 injection moulding mould temperature 60-120 °C

Storage dry, protected from light
 not above 30°C

Properties	Value	Dimension	Test Norm
Mechanical Properties			
Flexural modulus	2800	MPa	ISO 178
Flexural strength	75	MPa	ISO 178
Tensile modulus	2800	MPa	ISO 527-1/-2
Tensile stress at yield	40	MPa	ISO 527-1/-2
Tensile elongation at break	7	%	ISO 527-1/-2
Charpy notched impact 1eA	3	kJ/m ²	ISO 179/1eA
Charpy impact strength 1eU	35	kJ/m ²	ISO 179/1eU
Thermal Properties			
Vicat B50	147	°C	ISO 306
HDT / A (1,8 MPa)	108	°C	ISO 75-1/-2
DSC (Melt Point)	171	°C	ISO 11357
Rheological Properties			
MVR	4	cm ³ /10min	ISO 1133
MVR temperature	190	°C	-
MVR load	2.16	kg	-
Physical Properties			
Density	1440	kg/m ³	ISO 1183

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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