Technical Data Sheet

Alcom®

MOCOM

ALCOM POM 770/1 PTFE1,5

Base Polymer	Polyoxymethylene Copolymer
Filler/Additive System	1,5 % PTFE
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 Injection Moulding	melt temperature 180-220 °C mould temperature 60-100 °C
Storage	dry, protected from light

Properties	Value	Dimension	Test Norm
Mechanical Properties			
Flexural Modulus	2400	MPa	ISO 178
Flexural Stress (3.5% Strain)	65	MPa	ISO 178
Tensile Modulus	2200	MPa	ISO 527
Tensile Elongation at Break	25	%	ISO 527
Impact Strength (Charpy, 23°C)	249	kJ/m²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	7	kJ/m²	ISO 179/1eA
Thermal Properties			
Vicat B50	148	°C	ISO 306
HDT / A (1,8 MPa)	92	°C	ISO 75-1/-2
DSC (Melt Point)	170	°C	ISO 11357
Rheological Properties			
Melt Index (MVR)	3	cm³/10min	ISO 1133
MVR temperature	190	°C	-
MVR load	2.16	kg	-
Shrinkage (lengthwise, 24h)	1.6 - 2	%	ISO 294-4
Shrinkage (lateral, 24h)	1.9 - 2.3	%	ISO 294-4
Physical Properties			
Density	1400	kg/m³	ISO 1183

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Diagrams

Stress-Strain