

Technical Data Sheet



ALCOM POM 770/1 SLAP

Base Polymer	Polyoxymethylene Copolymer
Filler/Additive System	special filler
Special Features	improved sliding / wear, heat stabilised
Market Segment	Automotive, Machinery
Application Area	injection moulded parts
Typical Applications	bearings and sliding elements, functional components

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 60-90 °C
Storage	dry, protected from light

Properties	Value	Dimension	Test Norm
Mechanical Properties			
Flexural Modulus	2300	MPa	ISO 178
Flexural Stress (3.5% Strain)	58	MPa	ISO 178
Tensile Modulus	2350	MPa	ISO 527
Tensile Strength	52	MPa	ISO 527
Tensile Elongation at Break	25	%	ISO 527
Impact Strength (Charpy, 23°C)	85	kJ/m ²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	80	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	5	kJ/m ²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	4	kJ/m ²	ISO 179/1eA
Thermal Properties			
Vicat B50	142	°C	ISO 306
HDT / A (1,8 MPa)	90	°C	ISO 75-1/-2
DSC (Melt Point)	173	°C	ISO 11357
Rheological Properties			
Melt Index (MVR)	8	cm ³ /10min	ISO 1133
MVR temperature	190	°C	-
MVR load	2.16	kg	-
Shrinkage (lengthwise, 24h)	2.6 - 3	%	ISO 294-4
Shrinkage (lateral, 24h)	2.2 - 2.6	%	ISO 294-4
Physical Properties			
Density	1400	kg/m ³	ISO 1183