Technical Data Sheet

Alcom®

MOCOM

ALCOM PC 740/1.1 CF10 PTFE15

Base Polymer	Polycarbonate
Filler/Additive System	10 % carbon fibres,15 % PTFE
Special Features	improved sliding / wear,electrically conductive,reduced surface resistivity
Market Segment	Automotive,Machinery
Typical Applications	housings,functional components,bearings and sliding elements

Pre-Drying Conditions	120 °C in a dry air (dessiccant) dryer for 2-3 h dependant on moisture content max. moisture content <0,02 %
Processing Injection Moulding	melt temperature 310-330 °C mould temperature 80-130 °C
Storage	dry, protected from light

Properties	Value	Dimension	Test Norm
Mechanical Properties			
Flexural Modulus	8150	MPa	ISO 178
Flexural Strength	154	MPa	ISO 178
Tensile Modulus	9200	MPa	ISO 527
Tensile Strength at Break	108	MPa	ISO 527
Tensile Elongation at Break	1.7	%	ISO 527
Impact Strength (Charpy, 23°C)	29	kJ/m²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	35	kJ/m²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	7	kJ/m²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	6	kJ/m²	ISO 179/1eA
Thermal Properties			
Vicat B50	150	°C	ISO 306
HDT / A (1,8 MPa)	144	°C	ISO 75-1/-2
Electrical Properties			
Surface Resistance	150	Ohm	IEC 62631-3-2
Rheological Properties			
Melt Index (MVR)	3.5	cm³/10min	ISO 1133
MVR temperature	300	°C	-
MVR load	1.2	kg	-
Shrinkage (lengthwise, 24h)	0.1 - 0.2	%	ISO 294-4
Shrinkage (lateral, 24h)	0.1 - 0.3	%	ISO 294-4
Physical Properties			
Density	1320	kg/m³	ISO 1183