

Technical Data Sheet



ALCOM PC 740/1 PTFE10

Base Polymer	Polycarbonate
Filler/Additive System	10 % PTFE
Special Features	improved sliding / wear
Market Segment	Automotive, Machinery
Application Area	various
Typical Applications	housings, functional components, bearings and sliding elements

Pre-Drying Conditions	120 °C in a dry air (dessiccant) dryer for 2-3 h in an air circulating dryer 100-120 °C for 4-12 h dependant on moisture content max. moisture content <0,02 %
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Processing Injection Moulding	melt temperature 280-320 °C mould temperature 80-130 °C
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Storage	dry, protected from light
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Properties	Value	Dimension	Test Norm
Mechanical Properties			
Flexural Modulus	2300	MPa	ISO 178
Flexural Stress (3.5% Strain)	70	MPa	ISO 178
Tensile Modulus	2300	MPa	ISO 527
Tensile Stress at Yield	55	MPa	ISO 527
Tensile Elongation at Yield	5.4	%	ISO 527
Tensile Elongation at Break	50	%	ISO 527
Impact Strength (Charpy, 23°C)	no break	kJ/m ²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	200	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	14	kJ/m ²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	10	kJ/m ²	ISO 179/1eA
Thermal Properties			
Vicat B50	142	°C	ISO 306
HDT / A (1,8 MPa)	130	°C	ISO 75-1/-2
Rheological Properties			
Melt Index (MVR)	9	cm ³ /10min	ISO 1133
MVR temperature	300	°C	-
MVR load	1.2	kg	-
Shrinkage (24h)	0.5 - 0.8	%	ISO 294-4
Physical Properties			
Density	1260	kg/m ³	ISO 1183
Flammability			
Flammability (1.5 mm)	HB	class	UL 94