



ALCOM PC 740/1 PTFE10

(Last update: 23.08.2022)



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



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Physical Properties

Density	1260	kg/m ³	ISO 1183
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Flammability

Flammability (1.5 mm)	HB	class	UL 94
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Liability Exclusion

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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