

ALCOM PC 740/4 CC1120-05LD

(Last update: 11.03.2015)

Base Polymer	Polycarbonate
Filler/Additive System	special filler
Special Features	light scattering,high light transmission,good flow
Market Segment	Automotive,Lighting
Application Area	lighting,light transparent components
Typical Applications	lamp covers,display elements,operating elements

Pre-Drying Conditions	in a dry air (dessiccant) dryer 100-120 °C,for 2-3 h,dependant on moisture content,max. moisture content <0,02 %
Processing Conditions	injection moulding melt temperature 270-310 °C,injection moulding mould temperature 80-110 °C
Storage	dry, protected from light,not above 30°C

Properties	Value	Dimension	Test Norm
Mechanical Properties			
Flexural modulus	2400	MPa	ISO 178
3.5% Flexural stress	76	MPa	ISO 178
Flexural strength	100	MPa	ISO 178
Flexural deflection at max force	7	%	ISO 178
Tensile modulus	2450	MPa	ISO 527-1/-2
Tensile stress at yield	66	MPa	ISO 527-1/-2
Tensile strength	66	MPa	ISO 527-1/-2
Tensile elongation at yield	6	%	ISO 527-1/-2
Tensile elongation at break	70	%	ISO 527-1/-2
Charpy notched impact 1eA	12	kJ/m ²	ISO 179/1eA
Charpy notched impact 1eA -20°C	12	kJ/m ²	ISO 179/1eA
Charpy notched impact 1eA -40°C	12	kJ/m ²	ISO 179/1eA
Impact strength Charpy 1eU	no break	kJ/m ²	ISO 179/1eU
Charpy impact strength 1eU -20°C	no break	kJ/m ²	ISO 179/1eU
Charpy impact strength 1eU -40°C	no break	kJ/m ²	ISO 179/1eU
Thermal Properties			
Vicat B50	142	°C	ISO 306
HDT / A (1,8 MPa)	124	°C	ISO 75-1/-2
Rheological Properties			
MVR	17	cm ³ /10min	ISO 1133
MVR temperature	300	°C	-
MVR load	1.2	kg	-
Physical Properties			
Density	1190	kg/m ³	ISO 1183
Flammability			
Flammability, 0.75 mm	V-2	class	UL 94
Flammability, 1.5 mm	HB	class	UL 94
Glow Wire 850°C 1mm (GWFI)	passed	-	DIN EN 60695



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Glow Wire 850°C 2mm (GWFI)	passed	-	DIN EN 60695
Glow Wire 850°C 3mm (GWFI)	passed	-	DIN EN 60695
Glow Wire 850°C 4mm (GWFI)	passed	-	DIN EN 60695
Glow Wire 960°C 3mm (GWFI)	passed	-	DIN EN 60695
Glow Wire 960°C 4mm (GWFI)	passed	-	DIN EN 60695

Optical Properties

Haze T(Y) (d=4,0 mm, A, 2°)	82	%	ISO 13468
Half Power Angle T(Y) (d=4mm, A, 2°)	2	°	-
Total Transmission T(Y) (d=4,0mm, A, 2°)	84	%	ISO 13468

These are guide values and not a specification. Any information given on the chemical and physical characteristics of our products, including technical advice on applications whether verbally, in writing or by testing the product, is given to the best of our knowledge. It does not exempt the buyer from carrying out his own investigations and tests in order to ascertain the products' specific suitability for the purpose intended.

The buyer is solely responsible for the application, utilisation and processing of the products, and must observe the laws and government regulations and the consequential rights of any third party.

The test values mentioned are guide values only and not binding minimum or maximum figures. These test values have been determined on standardised test specimen and they can be affected by pigmentation, mould design and processing conditions.

ALBIS expressly advises against the use of this product in any medical, pharmaceutical or diagnostic application. At all times our Conditions of Sale apply.