



ALCOM LG PC 1000 UV 14094 CC1323-08

(Last update: 06.12.2024)



Base Polymer	Polycarbonate
Filler/Additive System	special filler,antioxidant
Special Features	high light transmission,light scattering,UV stabilised,easy flow
Market Segment	Automotive,Lighting
Application Area	lighting,light transparent components
Typical Applications	lamp covers,light guides
Approvals	GS93016,AMECA (SAE J-576)

Pre-Drying Conditions	120 °C in a dry air (dessiccant) dryer for 2-3 h max. moisture content <0,02 %
Processing Injection Moulding	melt temperature 270-300 °C mould temperature 80-100 °C
Storage	dry, protected from light

Properties	Value	Dimension	Test Norm
<b>Mechanical Properties</b>			
Flexural Modulus	2500	MPa	ISO 178
Flexural Stress (3.5% Strain)	78	MPa	ISO 178
Tensile Modulus	2350	MPa	ISO 527
Tensile Stress at Yield	65	MPa	ISO 527
Tensile Elongation at Yield	6	%	ISO 527
Tensile Elongation at Break	15	%	ISO 527
Impact Strength (Charpy, 23°C)	90	kJ/m²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	75	kJ/m²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	5	kJ/m²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	5	kJ/m²	ISO 179/1eA
<b>Thermal Properties</b>			
Vicat B50	141	°C	ISO 306
HDT / A (1,8 MPa)	125	°C	ISO 75-1/-2
<b>Rheological Properties</b>			
Melt Index (MVR)	28	cm³/10min	ISO 1133
MVR temperature	300	°C	-
MVR load	1.2	kg	-
Shrinkage (24h)	0.6 - 0.9	%	ISO 294-4
<b>Physical Properties</b>			
Density	1180	kg/m³	ISO 1183



ALCOM LG PC 1000 UV 14094 CC1323-08

(Last update: 06.12.2024)



Flammability

Flammability (0.75 mm)	V-2	class	UL 94
Yellow Card available	yes	-	-
Flammability (1.5 mm)	HB	class	UL 94
Yellow Card available	yes	-	-
Glow Wire (GWFI, 850 °C, 2.0mm)	passed	-	DIN EN 60695

Optical Properties

Total Transmission T(Y) (d=1,0mm, A, 2°)	88.5	%	ISO 13468
Total Transmission T(Y) (d=2,0mm, A, 2°)	85.5	%	ISO 13468
Total Transmission T(Y) (d=3,0mm, A, 2°)	81.5	%	ISO 13468
Total Transmission T(Y) (d=4,0mm, A, 2°)	76	%	ISO 13468
Haze T(Y) (d=1,0 mm, A, 2°)	93.5	%	ISO 13468
Haze T(Y) (d=2,0 mm, A, 2°)	95	%	ISO 13468
Haze T(Y) (d=3,0 mm, A, 2°)	95	%	ISO 13468
Haze T(Y) (d=4,0 mm, A, 2°)	95	%	ISO 13468
Half Power Angle T(Y) (d=1,0mm, A, 2°)	12	°	-
Half Power Angle T(Y) (d=2,0mm, A, 2°)	20	°	-
Half Power Angle T(Y) (d=3,0mm, A, 2°)	24	°	-
Half Power Angle T(Y) (d=4,0mm, A, 2°)	28	°	-

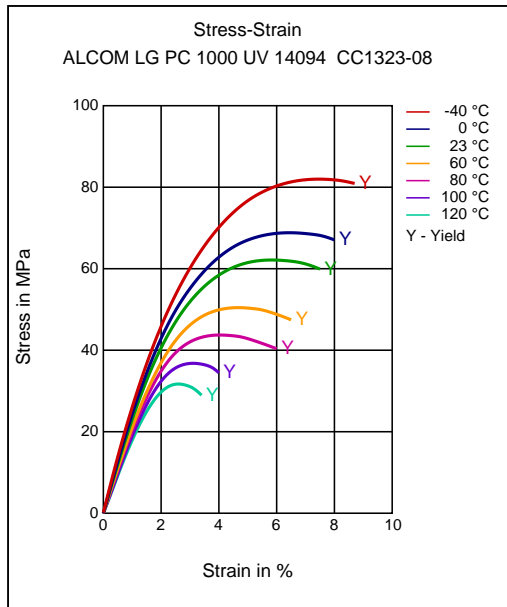
## ALCOM LG PC 1000 UV 14094 CC1323-08

(Last update: 06.12.2024)

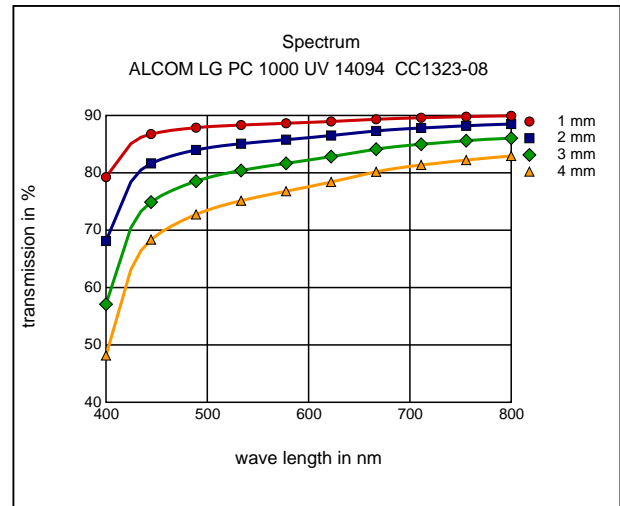
## MOCOM

### Diagrams

#### Stress-Strain



#### Spectrum



### Additional Information

In general, gentle or mild processing conditions are recommended. It is essential to process the material within the recommended processing window. In order to avoid thermo-oxidative degradation, long residence times in the barrel should be avoided.

#### 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.

Any information given on the chemical and physical characteristics of our products, including, without limitation, technical advice on applications, whether verbally, in writing or by testing the product, is given to the best of our knowledge and in good faith and does not exempt the buyer from carrying out their own investigations and tests in order to ascertain the product's specific suitability for the purpose intended.

The buyer is solely responsible for confirming the suitability of the product for a particular application, its utilization and processing and must observe any applicable laws and government regulations. **NO EXPRESS OR IMPLIED RECOMMENDATION OR WARRANTY IS GIVEN WITH REGARD TO THE SUITABILITY OF THE PRODUCT FOR A PARTICULAR APPLICATION, SUCH AS, BUT NOT LIMITED TO, SAFETY-CRITICAL COMPONENTS OR SYSTEMS.**

**Healthcare uses:** the supply of any product by ALBIS for any medical, pharmaceutical or diagnostic application is conditional to an assessment by ALBIS in terms of compliance with ALBIS' internal risk management policy – even for products which are in general designated for use in Healthcare applications.

**Important:** irrespective of product type or designation, ALBIS does not recommend or support the use of any products it supplies which fall into the following medical, pharmaceutical or diagnostic application categories:

- risk class III applications according to EU directive 93/42/EEC
- any bodily implant application for greater than 30 days
- any critical component in any medical device that supports or sustains human life.

At all times, our standard terms and conditions of sale apply.