

**ALCOM LD2 PC 1000 UV 14068 GY1159-14**

(Last update: 08.02.2024)

|                        |                                                             |
|------------------------|-------------------------------------------------------------|
| Base Polymer           | Polycarbonate                                               |
| Filler/Additive System | special filler                                              |
| Special Features       | translucent,light scattering,high light diffusion,easy flow |
| Market Segment         | Automotive,Lighting                                         |
| Application Area       | lighting,light transparent components                       |
| Typical Applications   | lamp covers,display elements,operating elements             |
| Approvals              | GS93016                                                     |

|                               |                                                                                                                                          |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| Pre-Drying Conditions         | 120 °C in a dry air (dessiccant) dryer<br>for 2-4 h<br>120 °C in an air circulating dryer<br>for 4-12 h<br>max. moisture content <0,02 % |
| Processing Injection Moulding | melt temperature 270-310 °C<br>mould temperature 80-110 °C                                                                               |
| Storage                       | dry, protected from light                                                                                                                |

| Properties                              | Value     | Dimension              | Test Norm   |
|-----------------------------------------|-----------|------------------------|-------------|
| <b>Mechanical Properties</b>            |           |                        |             |
| Flexural Modulus                        | 2450      | MPa                    | ISO 178     |
| Flexural Stress (3.5% Strain)           | 76        | MPa                    | ISO 178     |
| Tensile Modulus                         | 2400      | MPa                    | ISO 527     |
| Tensile Stress at Yield                 | 66        | MPa                    | ISO 527     |
| Tensile Elongation at Yield             | 6         | %                      | ISO 527     |
| Tensile Elongation at Break             | 70        | %                      | ISO 527     |
| Impact Strength (Charpy, 23°C)          | no break  | kJ/m <sup>2</sup>      | ISO 179/1eU |
| Impact Strength (Charpy, -40°C)         | no break  | kJ/m <sup>2</sup>      | ISO 179/1eU |
| Notched Impact Strength (Charpy, 23°C)  | 12        | kJ/m <sup>2</sup>      | ISO 179/1eA |
| Notched Impact Strength (Charpy, -40°C) | 12        | kJ/m <sup>2</sup>      | ISO 179/1eA |
| <b>Thermal Properties</b>               |           |                        |             |
| Vicat B50                               | 142       | °C                     | ISO 306     |
| HDT / A (1,8 MPa)                       | 124       | °C                     | ISO 75-1/-2 |
| <b>Rheological Properties</b>           |           |                        |             |
| Melt Index (MVR)                        | 20        | cm <sup>3</sup> /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                                 | 1190      | kg/m <sup>3</sup>      | ISO 1183    |

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### Flammability

Flammability (0.75 mm)

Yellow Card available

Flammability (1.5 mm)

Yellow Card available

Glow Wire (GWFI, 850 °C, 1.0mm)

Glow Wire (GWFI, 850 °C, 2.0mm)

Fire behavior FMVSS (1.0 mm)

V-2

class

UL 94

yes

-

-

HB

class

UL 94

yes

-

-

passed

-

DIN EN 60695

passed

-

DIN EN 60695

passed

-

FMVSS 302/DIN

75200

### Optical Properties

Total Transmission T(Y) (d=1,0mm, A, 2°)

19

%

ISO 13468

Total Transmission T(Y) (d=2,0mm, A, 2°)

4

%

ISO 13468

Haze T(Y) (d=1,0 mm, A, 2°)

95.5

%

ISO 13468

Haze T(Y) (d=2,0 mm, A, 2°)

95

%

ISO 13468

Half Power Angle T(Y) (d=1,0mm, A, 2°)

32

°

-

Half Power Angle T(Y) (d=2,0mm, A, 2°)

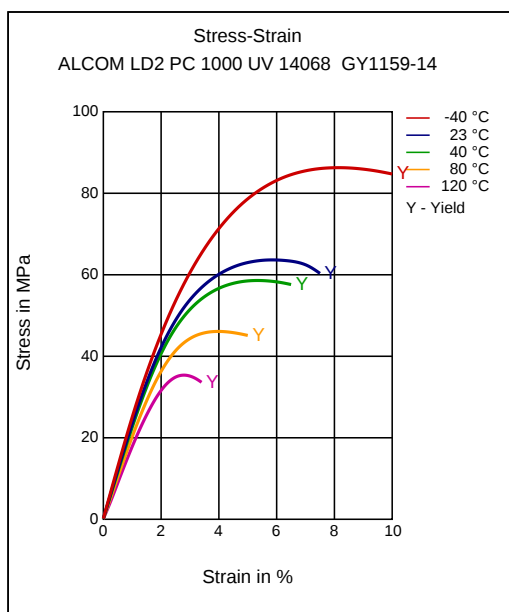
44

°

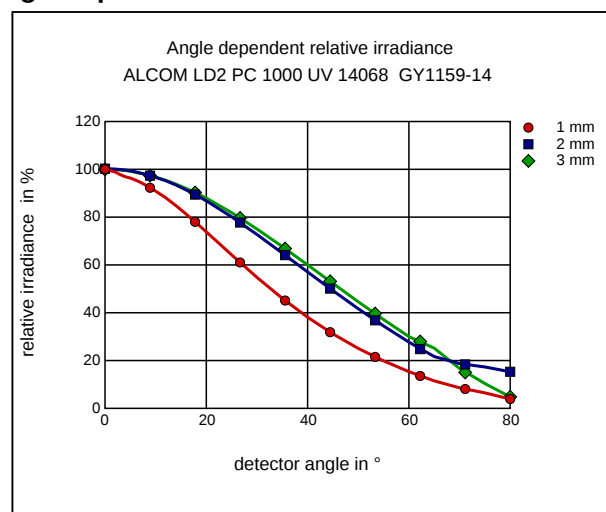
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### Diagrams

#### Stress-Strain



#### Angle dependent relative irradiance



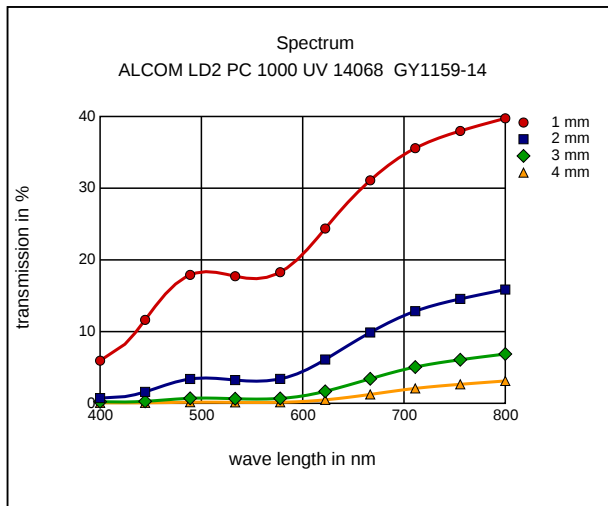
## Technical Data Sheet



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#### Spectrum



#### Disclaimer

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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- Bodily implant applications for greater than 30 days (permanent implants) in any risk class
- Critical components in any medical device that supports or sustains human life

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