

## Technical Data Sheet



### ALCOM PC 740/4 GY1122-04LD

|                        |                                                 |
|------------------------|-------------------------------------------------|
| Base Polymer           | Polycarbonate                                   |
| Filler/Additive System | special filler                                  |
| Special Features       | light scattering,high light diffusion,good 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                        | 2400      | MPa                    | ISO 178     |
| Flexural Stress (3.5% Strain)           | 76        | MPa                    | ISO 178     |
| Tensile Modulus                         | 2450      | 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)  | 11        | kJ/m <sup>2</sup>      | ISO 179/1eA |
| Notched Impact Strength (Charpy, -40°C) | 11        | 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)                        | 15        | 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)

V-2

class

UL 94

yes

-

-

HB

class

UL 94

yes

-

-

passed

-

DIN EN 60695

passed

-

DIN EN 60695

#### Optical Properties

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

6.5

%

ISO 13468

Haze T(Y) (d=1,0 mm, A, 2°)

95

%

ISO 13468

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

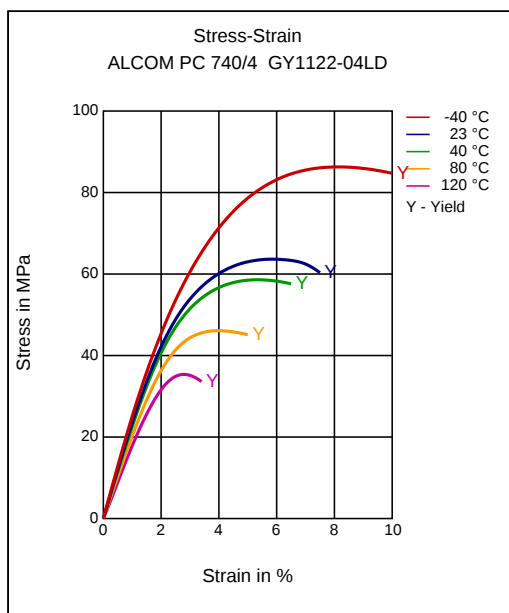
48

°

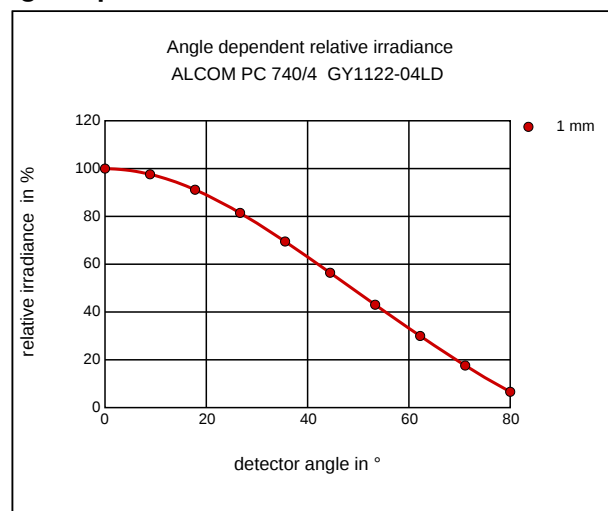
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#### Diagrams

##### Stress-Strain



##### Angle dependent relative irradiance



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### Spectrum

