

## Technical Data Sheet



### ALCOM PC 740/4 GY1320-04LD

## MOCOM

|                        |                                                             |
|------------------------|-------------------------------------------------------------|
| Base Polymer           | Polycarbonate                                               |
| Filler/Additive System | special filler                                              |
| Special Features       | translucent,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 Strength                        | 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/m²     | ISO 179/1eU |
| Impact Strength (Charpy, -40°C)         | no break  | kJ/m²     | ISO 179/1eU |
| Notched Impact Strength (Charpy, 23°C)  | 11        | kJ/m²     | ISO 179/1eA |
| Notched Impact Strength (Charpy, -40°C) | 11        | kJ/m²     | 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        | cm³/10min | ISO 1133    |
| MVR temperature                         | 300       | °C        | -           |
| MVR load                                | 1.2       | kg        | -           |
| Shrinkage (24h)                         | 0.6 - 0.9 | %         | ISO 294-4   |

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#### Physical Properties

|         |      |                   |          |
|---------|------|-------------------|----------|
| Density | 1190 | kg/m <sup>3</sup> | ISO 1183 |
|---------|------|-------------------|----------|

#### 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, 1.0mm) | passed | -     | DIN EN 60695        |
| Glow Wire (GWFI, 850°C, 2.0mm) | passed | -     | DIN EN 60695        |
| Fire behavior FMVSS (1.0 mm)   | passed | -     | FMVSS 302/DIN 75200 |

#### Optical Properties

|                                          |      |   |           |
|------------------------------------------|------|---|-----------|
| Total Transmission T(Y) (d=1,0mm, A, 2°) | 37   | % | ISO 13468 |
| Total Transmission T(Y) (d=2,0mm, A, 2°) | 16   | % | ISO 13468 |
| Total Transmission T(Y) (d=3,0mm, A, 2°) | 8    | % | ISO 13468 |
| Haze T(Y) (d=1,0 mm, A, 2°)              | 95   | % | ISO 13468 |
| Haze T(Y) (d=2,0 mm, A, 2°)              | 95.5 | % | ISO 13468 |
| Haze T(Y) (d=3,0 mm, A, 2°)              | 95.5 | % | ISO 13468 |
| Half Power Angle T(Y) (d=1,0mm, A, 2°)   | 37   | ° | -         |
| Half Power Angle T(Y) (d=2,0mm, A, 2°)   | 50   | ° | -         |
| Half Power Angle T(Y) (d=3,0mm, A, 2°)   | 52   | ° | -         |

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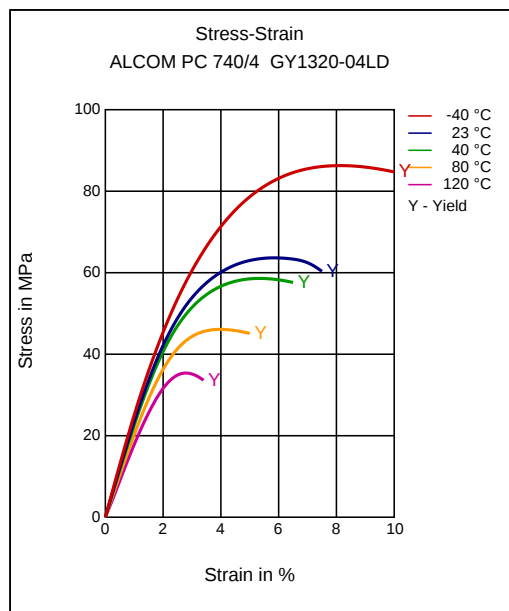


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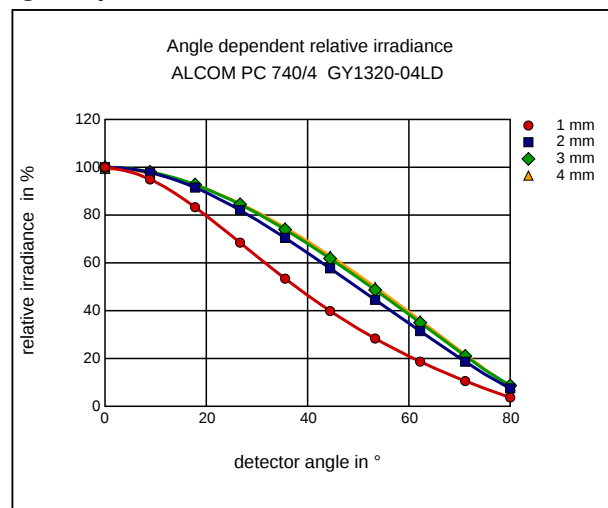
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### Diagrams

#### Stress-Strain



#### Angle dependent relative irradiance



#### Spectrum

