



## Technical Data Sheet

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

|                           |                                                                                                                             |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Polymeric basis:          | polycarbonate                                                                                                               |
| Filler / Additive system: | -                                                                                                                           |
| Processing:               | injection moulding (T <sub>mass</sub> : 280 - 320 °C, T <sub>mould</sub> : 80 - 100 °C)<br>appropriate pre-drying necessary |
| Special properties:       | good flow, light diffusor                                                                                                   |
| Typical applications:     | lamp cover, control and operating elements                                                                                  |

| Properties                                  | Test figures | Units                   | Standards           |
|---------------------------------------------|--------------|-------------------------|---------------------|
| <b>Physical properties</b>                  |              |                         |                     |
| Density                                     | 1.20         | g/cm <sup>3</sup>       | ISO 1183            |
| <b>Mechanical properties</b>                |              |                         |                     |
| Tensile modulus                             | 2,400        | MPa                     | DIN EN ISO 527      |
| Yield stress                                | 66           | MPa                     | DIN EN ISO 527      |
| Yield strain                                | 6.0          | %                       | DIN EN ISO 527      |
| Charpy impact strength (23°C)               | n.b.         | kJ/m <sup>2</sup>       | DIN EN ISO 179/1eU  |
| Charpy notched impact strength (23°C)       | 11.0         | kJ/m <sup>2</sup>       | DIN EN ISO 179/1eA  |
| <b>Thermal properties</b>                   |              |                         |                     |
| Heat deflection temperature HDT A (1.8 MPa) | 124          | °C                      | DIN EN ISO 75       |
| Vicat softening point VST B/50              | 142          | °C                      | DIN EN ISO 306      |
| <b>Optical properties</b>                   |              |                         |                     |
| Total Transmission Tau% (1 mm)              | 7.6          | %                       | DIN EN ISO 13468    |
| Light Diffusion HAZE (1 mm)                 | 97           | %                       | bas. auf ISO 13468  |
| Half Power Angle Gamma to Tau% (Gamma)      | 49           | °                       | -                   |
| <b>Further properties</b>                   |              |                         |                     |
| Flammability UL 94 (1.5 mm)                 | HB           | class                   | UL 94               |
| Flammability UL 94 (0.75- 1.5 mm)           | V-2          | class                   | UL 94               |
| Fire behavior (1,0 mm)                      | 0            | mm/min.                 | FMVSS 302/DIN 75200 |
| Melt volume rate MVR (300/1.2)              | 17           | cm <sup>3</sup> /10 min | DIN ISO 1133        |

\* testing on unconditioned test specimen (dry as moulded)

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. At all times our Conditions of Sale apply.

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

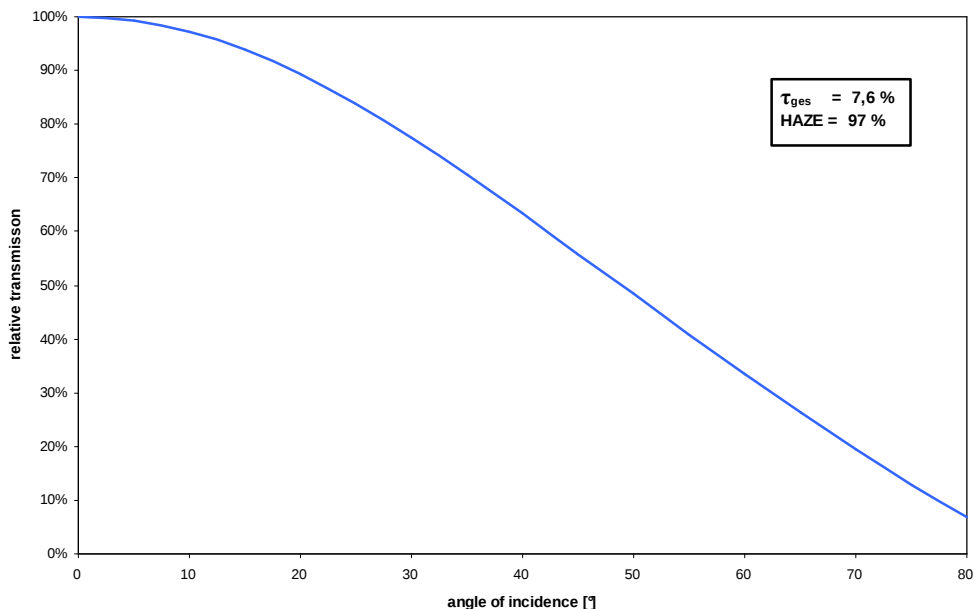


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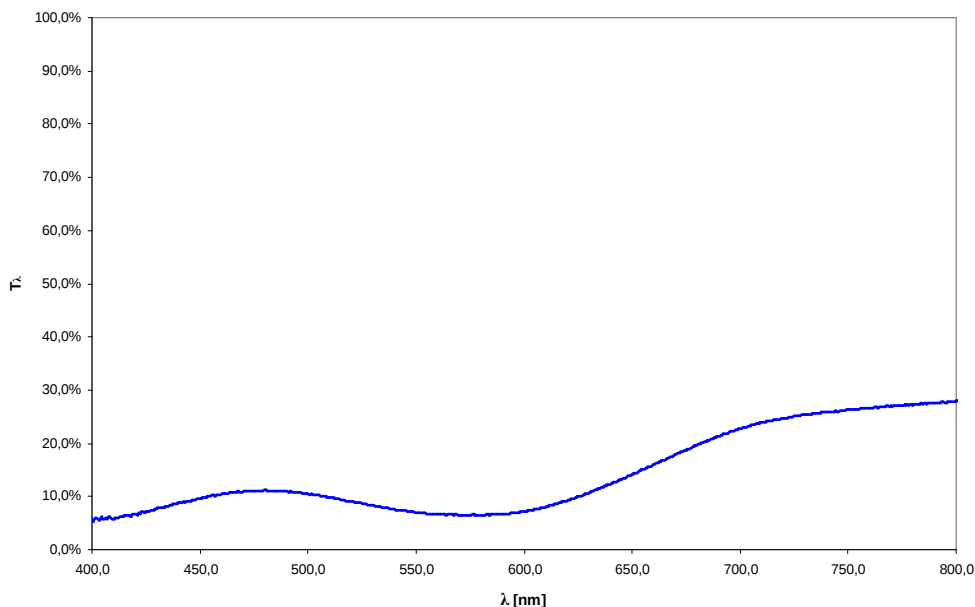
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decrement of transmission in relation to incidence (wall thickness 1 mm)



transmission curve (wall thickness 1 mm)



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