

## Technical Data Sheet



### ALCOM PC 740/4 UV WT1257-04LD

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

|                       |                                                                                                                                          |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| 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             | 80        | %                      | 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)                        | 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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### ALCOM PC 740/4 UV WT1257-04LD

#### Flammability

Flammability (0.75 mm)

Yellow Card available

Flammability (1.5 mm)

Yellow Card available

Glow Wire (GWFI, 850 °C, 2.0mm)

V-2

class

UL 94

yes

-

-

HB

class

UL 94

yes

-

-

passed

-

DIN EN 60695

#### Optical Properties

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

88

%

ISO 13468

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

86

%

ISO 13468

Total Transmission T(Y) (d=3,0mm, A, 2°)

83.5

%

ISO 13468

Total Transmission T(Y) (d=4,0mm, A, 2°)

80

%

ISO 13468

Haze T(Y) (d=1,0 mm, A, 2°)

56

%

ISO 13468

Haze T(Y) (d=2,0 mm, A, 2°)

78.5

%

ISO 13468

Haze T(Y) (d=3,0 mm, A, 2°)

87.5

%

ISO 13468

Haze T(Y) (d=4,0 mm, A, 2°)

92

%

ISO 13468

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

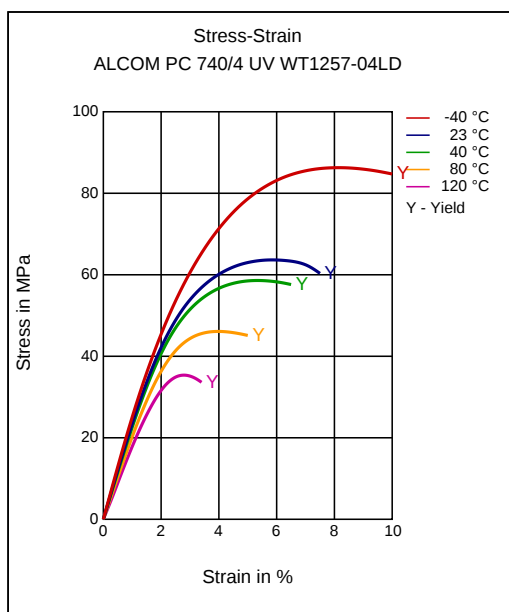
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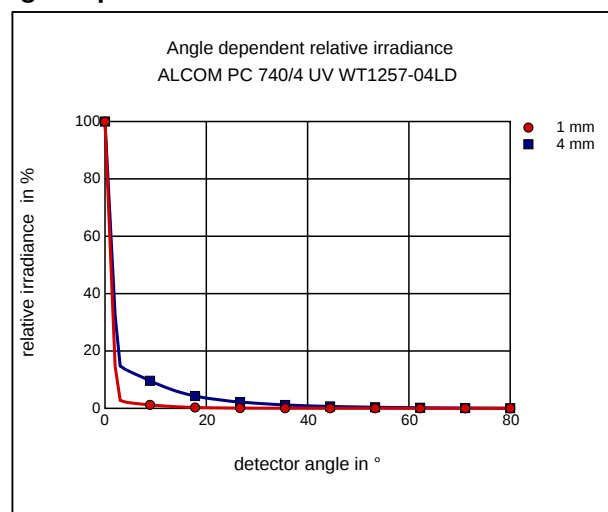
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#### Diagrams

##### Stress-Strain



##### Angle dependent relative irradiance



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### Spectrum

