**Technical Data Sheet**

Alcom®

MOCOM

# ALCOM LG PC 1000 UV 14094 CC1323-08

| | |
|---|---|
| Base Polymer | Polycarbonate |
| Filler/Additive System | special filler,antioxidant |
| Special Features | high light transmission,light scattering,UV stabilised,easy flow |
| Market Segment | Automotive,Lighting |
| Application Area | lighting,light transparent components |
| Typical Applications | lamp covers,light guides |
| Approvals | GS93016,AMECA (SAE J-576) |

| | |
|---|---|
| Pre-Drying Conditions | 120 °C in a dry air (dessiccant) dryer<br>for 2-3 h<br>max. moisture content <0,02 % |
| Processing Injection Moulding | melt temperature 270-300 °C<br>mould temperature 80-100 °C |
| Storage | dry, protected from light |

| Properties | Value | Dimension | Test Norm |
|---|---|---|---|
| **Mechanical Properties** | | | |
| Flexural Modulus | 2500 | MPa | ISO 178 |
| Flexural Stress (3.5% Strain) | 78 | MPa | ISO 178 |
| Tensile Modulus | 2350 | MPa | ISO 527 |
| Tensile Stress at Yield | 65 | MPa | ISO 527 |
| Tensile Elongation at Yield | 6 | % | ISO 527 |
| Tensile Elongation at Break | 15 | % | ISO 527 |
| Impact Strength (Charpy, 23°C) | 90 | kJ/m² | ISO 179/1eU |
| Impact Strength (Charpy, -40°C) | 75 | kJ/m² | ISO 179/1eU |
| Notched Impact Strength (Charpy, 23°C) | 5 | kJ/m² | ISO 179/1eA |
| Notched Impact Strength (Charpy, -40°C) | 5 | kJ/m² | ISO 179/1eA |
| **Thermal Properties** | | | |
| Vicat B50 | 141 | °C | ISO 306 |
| HDT / A (1,8 MPa) | 125 | °C | ISO 75-1/-2 |
| **Rheological Properties** | | | |
| Melt Index (MVR) | 28 | cm³/10min | ISO 1133 |
| MVR temperature | 300 | °C | - |
| MVR load | 1.2 | kg | - |
| Shrinkage (24h) | 0.6 - 0.9 | % | ISO 294-4 |
| **Physical Properties** | | | |
| Density | 1180 | kg/m³ | ISO 1183 |

+135-3858-6433 (GuangDong)
+188-1699-6168 (ShangHai)
+852-6957-5415 (HongKong)

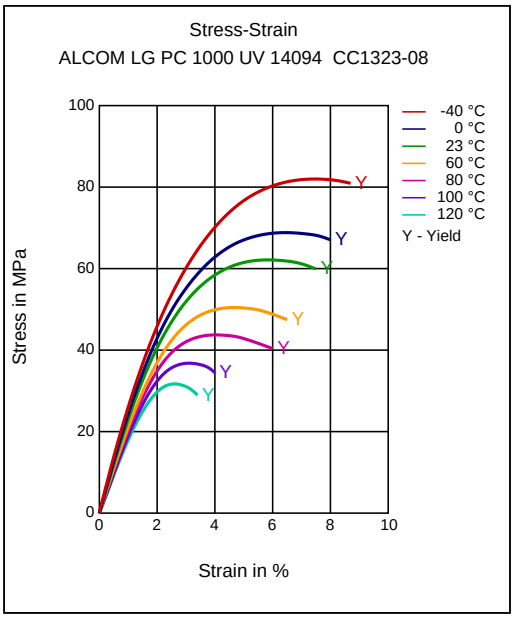
**Technical Data Sheet**

# ALCOM LG PC 1000 UV 14094 CC1323-08

| | | | |
|---|---|---|---|
| **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, 2.0mm) | passed | - | DIN EN 60695 |
| **Optical Properties** | | | |
| Total Transmission T(Y) (d=1,0mm, A, 2°) | 88.5 | % | ISO 13468 |
| Total Transmission T(Y) (d=2,0mm, A, 2°) | 85.5 | % | ISO 13468 |
| Total Transmission T(Y) (d=3,0mm, A, 2°) | 81.5 | % | ISO 13468 |
| Total Transmission T(Y) (d=4,0mm, A, 2°) | 76 | % | ISO 13468 |
| Haze T(Y) (d=1,0 mm, A, 2°) | 93.5 | % | ISO 13468 |
| Haze T(Y) (d=2,0 mm, A, 2°) | 95 | % | ISO 13468 |
| Haze T(Y) (d=3,0 mm, A, 2°) | 95 | % | ISO 13468 |
| Haze T(Y) (d=4,0 mm, A, 2°) | 95 | % | ISO 13468 |
| Half Power Angle T(Y) (d=1,0mm, A, 2°) | 12 | ° | - |
| Half Power Angle T(Y) (d=2,0mm, A, 2°) | 20 | ° | - |
| Half Power Angle T(Y) (d=3,0mm, A, 2°) | 24 | ° | - |
| Half Power Angle T(Y) (d=4,0mm, A, 2°) | 28 | ° | - |

## Diagrams

### Stress-Strain




### Spectrum