

Technical Data Sheet



ALCOM LIR PC 1000 UV BK1226-19

| | |
|------------------------|---|
| Base Polymer | Polycarbonate |
| Filler/Additive System | special filler |
| Special Features | easy release (demoulding), processing stabilised, UV stabilised, injection moulding grade, IR-transparent |
| Market Segment | Automotive, Lighting |
| Application Area | lighting, light transparent components |
| Typical Applications | lamp covers, display elements, operating elements |

| | |
|-------------------------------|--|
| Pre-Drying Conditions | in a dry air (dessiccant) dryer 100-120 °C for 2-3 h in an air circulating dryer 100-120 °C for 4-12 h max. moisture content <0,02 % |
| Processing Injection Moulding | melt temperature 270-310 °C mould temperature 80-110 °C |
| Storage | dry, protected from light |

| Properties | Value | Dimension | Test Norm |
|--|-----------|------------------------|-------------|
| Mechanical Properties | | | |
| 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 | 95 | % | ISO 527 |
| Impact Strength (Charpy, 23 °C) | no break | kJ/m ² | ISO 179/1eU |
| Impact Strength (Charpy, -40 °C) | no break | kJ/m ² | ISO 179/1eU |
| Notched Impact Strength (Charpy, 23 °C) | 11 | kJ/m ² | ISO 179/1eA |
| Notched Impact Strength (Charpy, -40 °C) | 11 | kJ/m ² | ISO 179/1eA |
| Thermal Properties | | | |
| Vicat B50 | 142 | °C | ISO 306 |
| HDT / A (1,8 MPa) | 124 | °C | ISO 75-1/-2 |
| Rheological Properties | | | |
| Melt Index (MVR) | 13 | cm ³ /10min | ISO 1133 |
| MVR temperature | 300 | °C | - |
| MVR load | 1.2 | kg | - |
| Shrinkage (24h) | 0.6 - 0.8 | % | ISO 294-4 |
| Physical Properties | | | |
| Density | 1190 | kg/m ³ | ISO 1183 |

Technical Data Sheet



ALCOM LIR PC 1000 UV BK1226-19

Flammability

| | | | |
|------------------------|-----|-------|-------|
| Flammability (0.75 mm) | V-2 | class | UL 94 |
| Flammability (1.5 mm) | HB | class | UL 94 |

Optical Properties

| | | | |
|--|-----|---|-----------|
| Total Transmission T(Y) (d=1,0mm, A, 2°) | 0.1 | % | ISO 13468 |
| Spectral Transmission 800nm (d=1,0mm) | 92 | % | ISO 13468 |