



## ALCOM LD PC 1000 UV 15072 GY1121-15

(Last update: 21.12.2022)

Base Polymer Polycarbonate

Filler/Additive System special filler, UV stabilised

Special Features translucent, light scattering, high light diffusion

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

for 2-4 h

120 °C in an air circulating dryer

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	<b>Test Norm</b>
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	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)	12	kJ/m²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	12	kJ/m²	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)	27	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
Physical Properties			
Density	1190	kg/m³	ISO 1183

# **:** Alcom<sup>®</sup>



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

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

Half Power Angle T(Y) (d=3,0mm, A, 2°)

Flamma	ability
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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°)	14	%	ISO 13468
Total Transmission T(Y) (d=3,0mm, A, 2°)	6	%	ISO 13468
Haze T(Y) (d=1,0 mm, A, 2°)	95.5	%	ISO 13468
Haze T(Y) (d=2,0 mm, A, 2°)	95.5	%	ISO 13468
Haze T(Y) (d=3,0 mm, A, 2°)	96	%	ISO 13468

29

45

49

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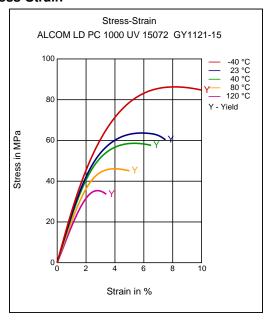


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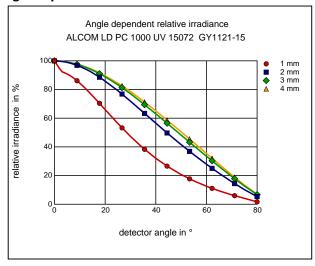
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#### **Diagrams**

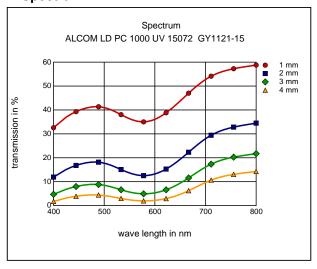
#### Stress-Strain



### Angle dependent relative irradiance



#### **Spectrum**



#### Disclaimer

These are guide values and not a specification. The test values mentioned are representative values only and not binding minimum or maximum figures. These test values have been determined on standardised test specimens and can be affected by pigmentation, mould design and processing conditions

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#### **Technical Data Sheet**





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- Bodily implant applications for greater than 30 days (permanent implants) in any risk class
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