

ALCOM LDX PC 1000 UV 15064 CC1125-15

(Last update: 19.08.2019)

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Base Polymer	Polycarbonate
Filler/Additive System	special filler, UV stabilised
Special Features	translucent, light scattering, high light diffusion, extrusion grade
Market Segment	Lighting
Application Area	lighting, light transparent components
Typical Applications	lamp covers

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 <0,01 %
Processing Extrusion	extrusion melt temperature 240-280 °C
Storage	dry, protected from light

Properties	Value	Dimension	Test Norm
Mechanical Properties			
Flexural Modulus	2350	MPa	ISO 178
Flexural Stress (3.5% Strain)	72	MPa	ISO 178
Tensile Modulus	2300	MPa	ISO 527
Tensile Stress at Yield	64	MPa	ISO 527
Tensile Elongation at Yield	6	%	ISO 527
Tensile Elongation at Break	82	%	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	143	°C	ISO 306
HDT / A (1,8 MPa)	130	°C	ISO 75-1/-2
Rheological Properties			
Melt Index (MVR)	7	cm ³ /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/m ³	ISO 1183

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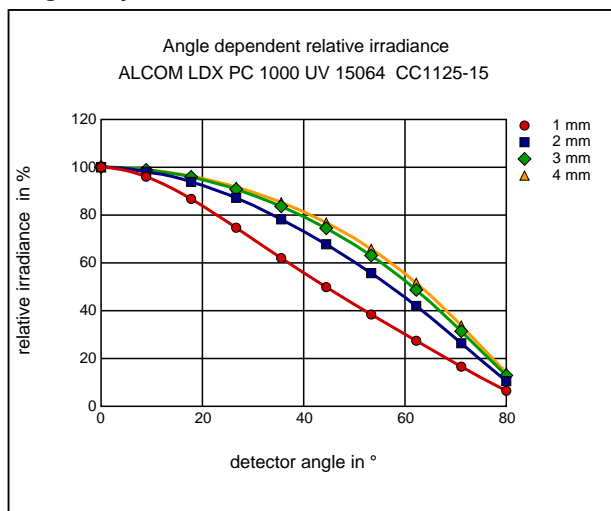
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Optical Properties

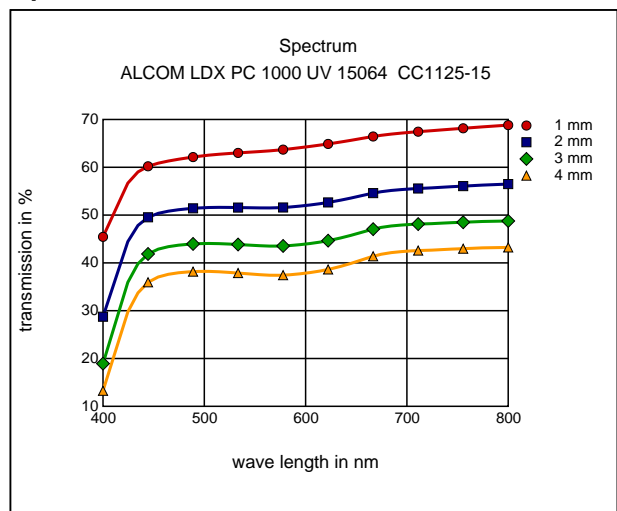
Total Transmission T(Y) (d=1,0mm, A, 2°)	64	%	ISO 13468
Total Transmission T(Y) (d=2,0mm, A, 2°)	52	%	ISO 13468
Total Transmission T(Y) (d=3,0mm, A, 2°)	44	%	ISO 13468
Total Transmission T(Y) (d=4,0mm, A, 2°)	38	%	ISO 13468
Haze T(Y) (d=1,0 mm, A, 2°)	95.5	%	ISO 13468
Haze T(Y) (d=2,0 mm, A, 2°)	95.5	%	ISO 13468
Haze T(Y) (d=3,0 mm, A, 2°)	95.5	%	ISO 13468
Haze T(Y) (d=4,0 mm, A, 2°)	95.5	%	ISO 13468
Half Power Angle T(Y) (d=1,0mm, A, 2°)	44	°	-
Half Power Angle T(Y) (d=2,0mm, A, 2°)	57	°	-
Half Power Angle T(Y) (d=3,0mm, A, 2°)	62	°	-
Half Power Angle T(Y) (d=4,0mm, A, 2°)	62	°	-

Diagrams

Angle dependent relative irradiance



Spectrum



Liability Exclusion

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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designated for use in Healthcare applications.

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- any critical component in any medical device that supports or sustains human life.

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