

ALCOM LD PC 2010 UV 16010 WT1010-16

(Last update: 01.02.2024)

MOCOM

Base Polymer	Polycarbonate
Filler/Additive System	special filler, 10 % glass fibres, UV stabilised
Special Features	high light transmission, light scattering, high light diffusion
Market Segment	Automotive, Lighting
Application Area	lighting, light transparent components
Typical Applications	lamp covers, display elements, operating elements

Pre-Drying Conditions 120 °C in a dry air (dessiccant) dryer
for 2-3 h
max. moisture content <0,02 %

Processing Injection Moulding melt temperature 290-320 °C
mould temperature 80-130 °C

Storage dry, protected from light

Properties	Value	Dimension	Test Norm
Mechanical Properties			
Flexural Modulus	3700	MPa	ISO 178
Flexural Strength	125	MPa	ISO 178
Tensile Modulus	3800	MPa	ISO 527
Tensile Strength at Break	65	MPa	ISO 527
Tensile Elongation at Break	5	%	ISO 527
Impact Strength (Charpy, 23 °C)	70	kJ/m ²	ISO 179/1eU
Impact Strength (Charpy, -40 °C)	65	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23 °C)	5.5	kJ/m ²	ISO 179/1eA
Notched Impact Strength (Charpy, -40 °C)	5.5	kJ/m ²	ISO 179/1eA
Thermal Properties			
Vicat B50	145	°C	ISO 306
HDT / A (1,8 MPa)	139	°C	ISO 75-1/-2
Rheological Properties			
Melt Index (MVR)	12	cm ³ /10min	ISO 1133
MVR temperature	300	°C	-
MVR load	1.2	kg	-
Shrinkage (lengthwise, 24h)	0.4 - 0.6	%	ISO 294-4
Shrinkage (lateral, 24h)	0.4 - 0.6	%	ISO 294-4
Physical Properties			
Density	1260	kg/m ³	ISO 1183



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Flammability

Flammability (0.75 mm)	V-2	class	UL 94
Flammability (1.5 mm)	HB	class	UL 94
Glow Wire (GWFI, 850 °C, 1.0mm)	passed	-	DIN EN 60695
Glow Wire (GWFI, 850 °C, 2.0mm)	passed	-	DIN EN 60695

Optical Properties

Total Transmission T(Y) (d=1,0mm, A, 2°)	53	%	ISO 13468
Total Transmission T(Y) (d=2,0mm, A, 2°)	39.5	%	ISO 13468
Total Transmission T(Y) (d=3,0mm, A, 2°)	30	%	ISO 13468
Total Transmission T(Y) (d=4,0mm, A, 2°)	23.5	%	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°)	47	°	-
Half Power Angle T(Y) (d=2,0mm, A, 2°)	60	°	-
Half Power Angle T(Y) (d=3,0mm, A, 2°)	62	°	-
Half Power Angle T(Y) (d=4,0mm, A, 2°)	63	°	-

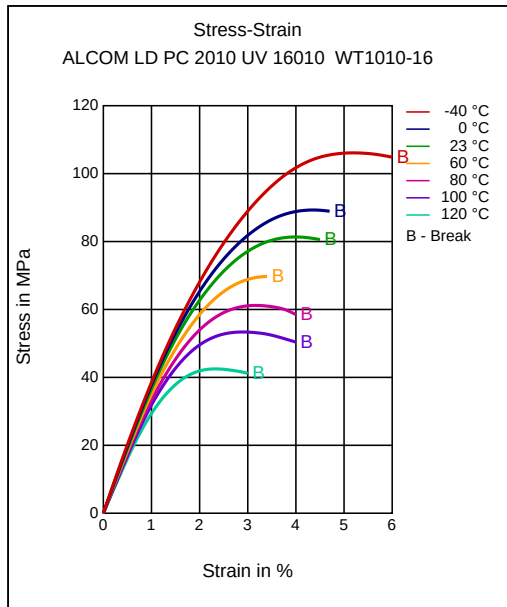
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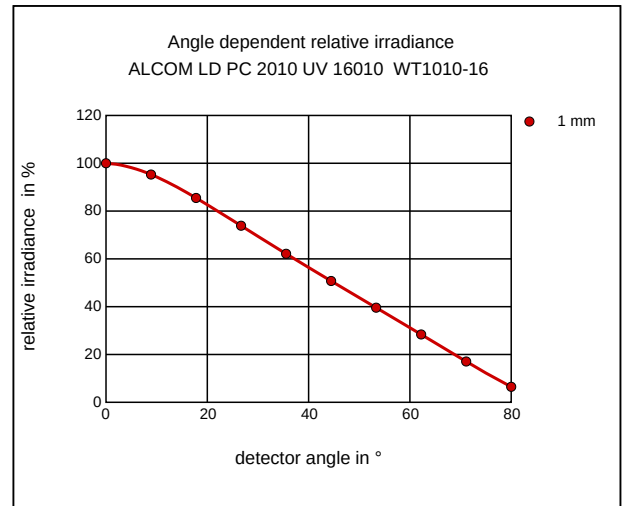
MOCOM

Diagrams

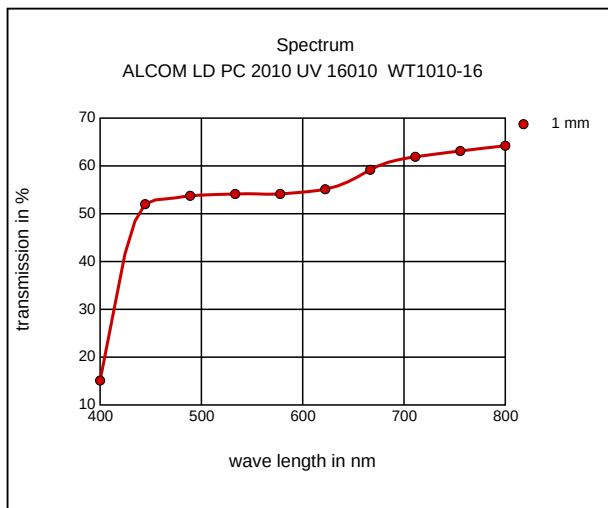
Stress-Strain



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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