

ALCOM LD PC 2020 UV 17027 WT1022-17

(Last update: 06.02.2024)

MOCOM

Base Polymer	Polycarbonate
Filler/Additive System	special filler, 20 % 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	5600	MPa	ISO 178
Flexural Strength	150	MPa	ISO 178
Tensile Modulus	6000	MPa	ISO 527
Tensile Strength at Break	90	MPa	ISO 527
Tensile Elongation at Break	2.7	%	ISO 527
Impact Strength (Charpy, 23 °C)	47	kJ/m ²	ISO 179/1eU
Impact Strength (Charpy, -40 °C)	47	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23 °C)	8	kJ/m ²	ISO 179/1eA
Notched Impact Strength (Charpy, -40 °C)	5.5	kJ/m ²	ISO 179/1eA
Thermal Properties			
Vicat B50	146	°C	ISO 306
HDT / A (1,8 MPa)	142	°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 (lengthwise, 24h)	0.2 - 0.4	%	ISO 294-4
Shrinkage (lateral, 24h)	0.2 - 0.4	%	ISO 294-4
Physical Properties			
Density	1330	kg/m ³	ISO 1183



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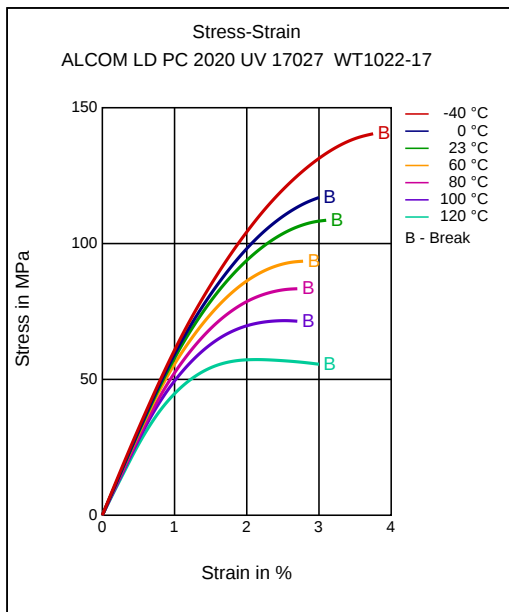


Optical Properties

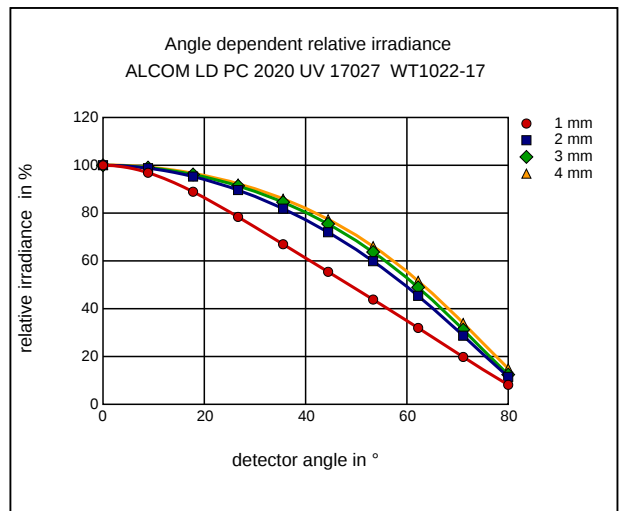
Total Transmission T(Y) (d=1,0mm, A, 2°)	54	%	ISO 13468
Total Transmission T(Y) (d=2,0mm, A, 2°)	41	%	ISO 13468
Total Transmission T(Y) (d=3,0mm, A, 2°)	32	%	ISO 13468
Total Transmission T(Y) (d=4,0mm, A, 2°)	25	%	ISO 13468
Haze T(Y) (d=1,0 mm, A, 2°)	95	%	ISO 13468
Haze T(Y) (d=2,0 mm, A, 2°)	95.5	%	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°)	49	°	-
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	°	-

Diagrams

Stress-Strain



Angle dependent relative irradiance



Technical Data Sheet

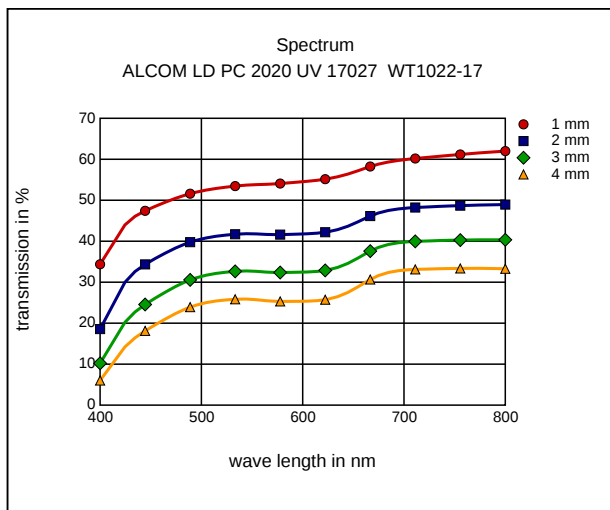


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Spectrum



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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- risk class III applications according to EU directive 93/42/EEC



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- any bodily implant application for greater than 30 days
- any critical component in any medical device that supports or sustains human life.

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