



ALCOM LD PC 2020 UV 17027 WT1022-17

(Last update: 06.02.2024)

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/m²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	47	kJ/m²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	8	kJ/m²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	5.5	kJ/m²	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/m³	ISO 1183
Optical Properties			
Total Transmission T(Y) (d=1,0mm, A, 2°)	54	%	ISO 13468

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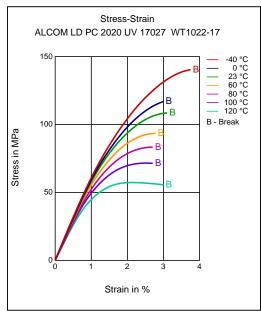
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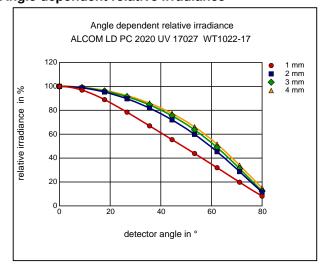
Total Transmission T(Y) (d=2,0mm, A, 2°)	41	%	ISO 13468
Total Transmission T(Y) (d=3,0mm, A, 2°)	32	%	ISO 13468
Total Transmission T(Y) (d=4,0mm, A, 2°)	25	%	ISO 13468
Haze T(Y) (d=1,0 mm, A, 2°)	95	%	ISO 13468
Haze T(Y) (d=2,0 mm, A, 2°)	95.5	%	ISO 13468
Haze T(Y) (d=3,0 mm, A, 2°)	95.5	%	ISO 13468
Haze T(Y) (d=4,0 mm, A, 2°)	95.5	%	ISO 13468
Half Power Angle T(Y) (d=1,0mm, A, 2°)	49	0	-
Half Power Angle T(Y) (d=2,0mm, A, 2°)	60	0	-
Half Power Angle T(Y) (d=3,0mm, A, 2°)	62	0	-
Half Power Angle T(Y) (d=4,0mm, A, 2°)	63	0	-

Diagrams

Stress-Strain



Angle dependent relative irradiance



Technical Data Sheet

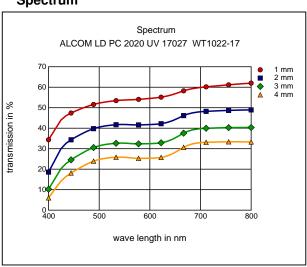
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Spectrum



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

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• Critical components in any medical device that supports or sustains human life

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