

ALCOM LD PC 1000 UV 17175 RD1173-17

(Last update: 01.02.2024)

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Base Polymer	Polycarbonate
Filler/Additive System	special filler,UV stabilised
Special Features	translucent,light scattering,easy flow
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	Test Norm
Mechanical Properties			
Flexural Modulus	2400	MPa	ISO 178
Flexural Stress (3.5% Strain)	76	MPa	ISO 178
Tensile Modulus	2300	MPa	ISO 527
Tensile Stress at Yield	64	MPa	ISO 527
Tensile Elongation at Yield	5.7	%	ISO 527
Tensile Elongation at Break	40	%	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)	7	kJ/m ²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	7	kJ/m ²	ISO 179/1eA
Thermal Properties			
Vicat B50	141	°C	ISO 306
HDT / A (1,8 MPa)	128	°C	ISO 75-1/-2
Rheological Properties			
Melt Index (MVR)	40	cm ³ /10min	ISO 1133
MVR temperature	300	°C	-
MVR load	1.2	kg	-
Shrinkage (24h)	0.6 - 0.9	%	ISO 294-4



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Physical Properties

Density	1180	kg/m ³	ISO 1183
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Flammability

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, 2.0mm)	passed	-	DIN EN 60695

Optical Properties

Total Transmission T(Y) (d=1,0mm, A, 2°)	27	%	ISO 13468
Total Transmission T(Y) (d=2,0mm, A, 2°)	19	%	ISO 13468
Total Transmission T(Y) (d=3,0mm, A, 2°)	16	%	ISO 13468
Total Transmission T(Y) (d=4,0mm, A, 2°)	14	%	ISO 13468
Haze T(Y) (d=1,0 mm, A, 2°)	74.5	%	ISO 13468
Haze T(Y) (d=2,0 mm, A, 2°)	87	%	ISO 13468
Haze T(Y) (d=3,0 mm, A, 2°)	91	%	ISO 13468
Haze T(Y) (d=4,0 mm, A, 2°)	92.5	%	ISO 13468
Half Power Angle T(Y) (d=1,0mm, A, 2°)	2	°	-
Half Power Angle T(Y) (d=2,0mm, A, 2°)	4	°	-
Half Power Angle T(Y) (d=3,0mm, A, 2°)	6	°	-
Half Power Angle T(Y) (d=4,0mm, A, 2°)	7	°	-

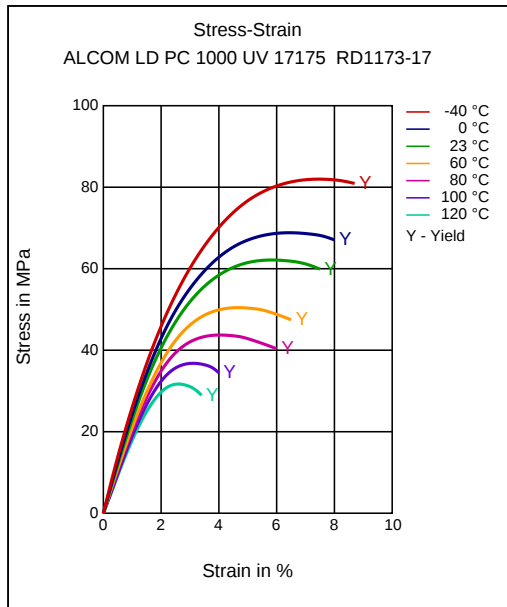
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Diagrams

Stress-Strain



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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