

**ALCOM LD2 PC 1000 17150 UV GY2240-08**

(Last update: 02.04.2020)

**MOCOM**

Base Polymer	Polycarbonate
Special Features	impact modified,UV stabilised,contains recycled material,light scattering
Market Segment	electrical and electronic,Lighting,various
Application Area	exterior parts,fixtures / fittings,electrical components
Typical Applications	housings,lamps,sockets,various
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 %
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Processing Injection Moulding	melt temperature 270-310 °C mould temperature 80-110 °C
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Storage	dry, protected from light
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Properties	Value	Dimension	Test Norm
<b>Mechanical Properties</b>			
Flexural Modulus	2450	MPa	ISO 178
Flexural Stress (3.5% Strain)	75	MPa	ISO 178
Tensile Modulus	2300	MPa	ISO 527
Tensile Stress at Yield	63	MPa	ISO 527
Tensile Elongation at Yield	6	%	ISO 527
Tensile Elongation at Break	100	%	ISO 527
Impact Strength (Charpy, 23°C)	no break	kJ/m <sup>2</sup>	ISO 179/1eU
Impact Strength (Charpy, -40°C)	no break	kJ/m <sup>2</sup>	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	75	kJ/m <sup>2</sup>	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	12	kJ/m <sup>2</sup>	ISO 179/1eA
<b>Thermal Properties</b>			
Vicat B50	146	°C	ISO 306
HDT / A (1,8 MPa)	128	°C	ISO 75-1/-2
<b>Rheological Properties</b>			
Melt Index (MVR)	15	cm <sup>3</sup> /10min	ISO 1133
MVR temperature	300	°C	-
MVR load	1.2	kg	-
Shrinkage (24h)	0.6 - 0.9	%	ISO 294-4
<b>Physical Properties</b>			
Density	1190	kg/m <sup>3</sup>	ISO 1183



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### Flammability

Glow Wire (GWFI, 850 °C, 2.0mm)	passed	-	DIN EN 60695
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### Optical Properties

Total Transmission T(Y) (d=1,0mm, A, 2°)	77	%	ISO 13468
Total Transmission T(Y) (d=2,0mm, A, 2°)	66	%	ISO 13468
Total Transmission T(Y) (d=3,0mm, A, 2°)	56	%	ISO 13468
Total Transmission T(Y) (d=4,0mm, A, 2°)	48	%	ISO 13468
Haze T(Y) (d=1,0 mm, A, 2°)	2.5	%	ISO 13468
Haze T(Y) (d=2,0 mm, A, 2°)	3	%	ISO 13468
Haze T(Y) (d=3,0 mm, A, 2°)	4	%	ISO 13468
Haze T(Y) (d=4,0 mm, A, 2°)	5	%	ISO 13468
Half Power Angle T(Y) (d=1,0mm, A, 2°)	1	°	-
Half Power Angle T(Y) (d=2,0mm, A, 2°)	1	°	-
Half Power Angle T(Y) (d=3,0mm, A, 2°)	1	°	-
Half Power Angle T(Y) (d=4,0mm, A, 2°)	1	°	-

### Additional Information

When using raw materials from a recycling process, as with prime materials, ferrous / non-ferrous residues can never be completely excluded. To minimize the risk of possible effects of such residues, MOCOM uses extensive detection and separation systems in the production process of its compounds. However, even these quality assurance systems cannot guarantee that the resulting product is 100% free of such residues. Therefore, we recommend our customers to additionally use their own detection and separation systems adapted to their respective process. For further questions and specific advice in connection with MOCOM products, please do not hesitate to contact our application engineering department.

### 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.

Any information given on the chemical and physical characteristics of our products, including, without limitation, technical advice on applications, whether verbally, in writing or by testing the product, is given to the best of our knowledge and in good faith and does not exempt the buyer from carrying out their own investigations and tests in order to ascertain the product's specific suitability for the purpose intended.

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**Important:** irrespective of product type or designation, ALBIS does not recommend or support the use of any products it supplies which fall into the following medical, pharmaceutical or diagnostic application categories:

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